

PROJECT ADMINISTRATION DATA SHEET



ORIGINAL



REVISION NO.

Project No.

B-10-639

GTRI/

DATE 10/12/84

Project Director:

Dr. Bernard Kahn

School/

OIP

Sponsor:

Georgia Department of Natural Resources, Environmental Protection Division, 270 Washington St SW, Atlanta, Ga 30334

Type Agreement:

Research Agreement B-10-639

Award Period: From

7-1-84

To

6-30-85

(Performance)

7-15-85

(Reports)

Sponsor Amount:

This Change

Total to Date

Estimated: \$

\$

Funded: \$

\$

86,000

Cost Sharing Amount: \$

None

Cost Sharing No:

Title:

Analytical Services Related to Environmental Radiological Surveillance & Radiological Assessment of Community Water Supplies

ADMINISTRATIVE DATA

OCA Contact

Don Hasty

1) Sponsor Technical Contact:

2) Sponsor Admin/Contractual Matters:

J. Leonard Ledbetter  
Director  
(above address)

Defense Priority Rating:

N/A

Military Security Classification:

(or) Company/Industrial Proprietary:

Disclosure Restriction  
No Library & Publication

RESTRICTIONS

See Attached

N/A

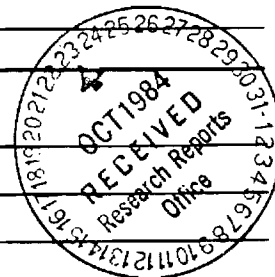
Supplemental Information Sheet for Additional Requirements.

Travel: Foreign travel must have prior approval - Contact OCA in each case. Domestic travel requires sponsor

approval where total will exceed greater of \$500 or 125% of approved proposal budget category.

Equipment: Title vests with

COMMENTS:



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Spons ID 03,300,000, 85N067

SPONSORED PROJECT TERMINATION/CLOSEOUT SHEET

Date 8/27/85

Project No. B-10-639 School/Lab XXX OIP

Includes Subproject No.(s) None

Project Director(s) Dr. Bernd Kahn GTRC / XXX

Sponsor Georgia Department of Natural Resources, Environmental Protection

Title Analytical Services Related to Environmental Radiological Surveillance and Radiological Assessment of Community Water Supplies

Effective Completion Date: 6/30/85 (Performance) 7/15/85 (Reports)

Grant/Contract Closeout Actions Remaining:

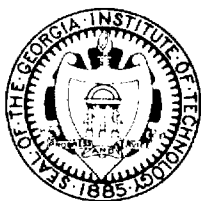
- ☐ None
- ☒ Final Invoice ~~and Final Report~~
- ☐ Closing Documents
- ☒ Final Report of Inventions (attached for Project Director)
- ☐ Govt. Property Inventory & Related Certificate
- ☐ Classified Material Certificate
- ☐ Other

Continues Project No.  Continued by Project No. B-10-648/Kahn

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GEORGIA INSTITUTE OF TECHNOLOGY  
OFFICE OF INTERDISCIPLINARY PROGRAMS  
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ATLANTA, GEORGIA 30332

ENVIRONMENTAL RESOURCES CENTER  
(404) 894-2375

BIOENGINEERING CENTER  
(404) 894-2375

DATE: August 15, 1984

TO: James Hardeman, Program Manager  
Environmental Radiation Program  
Environmental Protection Division, DNR

FROM: Bernd Kahn, Director  
Environmental Resources Center

SUBJECT: Monthly Report of Activities for the State by the Environmental  
Radiation Laboratory, July, 1984

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The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental radionuclide monitoring at nuclear facilities by DNR staff	Tables 1-18
Other environmental radionuclide monitoring by DNR staff	Table 19
Radioactivity monitoring by DNR staff	Table 20
Monitoring by DNR staff of Community Water Systems	Table 21
Environmental radiation monitoring at nuclear facilities by DNR staff	Table 22

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity that may be attributed to the facility:

Table 1 ---Cs-137 in one grass sample at the Hatch Nuclear Plant.

Tables 14-17 ---H-3 in milk, rainwater, surface water, grass and fish at the Savannah River Plant.

All other radionuclides in Tables 1-18 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables.

The samples of beach sand from various locations in Table 19 included some with slightly elevated levels of Ra-226 and Ra-228, but none that were significantly elevated.

The smears submitted for LS counting by DHR staff included a few that were slightly elevated in the H-3 and C-14 energy windows (see Table 20).

Radioactivity results for community supplies, compiled in Table 20, include completed values for samples WS4020-4040 and partial data for samples WS4041-4166. The following completed samples have radium levels above the guidelines of 5 pCi/l:

WS 4030	Seminole MHP
WS 4031	Brittany Harbor #2
4035	
4039	
WS 4034	Royal Court MHP

High uranium concentrations (> 15 pCi/l) were found in the following:

WS 4031	Brittany Harbor #2
4035	
4039	
WS 4033	Royal Court
4034	
WS 4037	Seminole MHP
WS 4040	Molena

In the samples to be completed, elevated radium levels were found in:

WS 4083	Alapaha
WS 4092	Attapulgis
WS4107	Pine Hill TP

TLD measurements obtained in the vicinity of Plant Hatch and at background locations are reported in Table 22. Ranges of exposure were:

<u>Location</u>	<u>Near Plant</u>	<u>Background</u>
Plant Hatch	31-66 mR/yr	43-70 MR/yr

None of the values are attributed to plant operation. Some of the background stations at Plant Hatch appear to be at locations with an unsuitable elevated natural radiation exposure relative to the near-plant locations.



To check the H-3 levels determined in milk collected from the environment of the Savannah River Plant, concentrations measured recently were compared with the values determined by SRP staff. The following comparisons, in units of pCi/liter, were obtained by telephone:

	June 1984		July 1984	
	<u>SRP</u>	<u>This Lab</u>	<u>SRP</u>	<u>This Lab</u>
Gracewood	920	700 $\pm$ 300	700	700 $\pm$ 200
Waynesboro	270	<300	390	200 $\pm$ 200
Girard	340	500 $\pm$ 200	<300	<300

All values are consistent within the indicated standard deviation values. This intercomparison will be continued another month.

The normal procedures for counting room detection systems are described here. Beginning this month, standards, controls, backgrounds, and other calibrations will not be included in the number of analysis. These numbers represent sample analyses and their duplicates, when required. They are not necessarily identical with the samples for which results are reported because some of the latter were analyzed in other months.

1. Quality Control for Ge(Li).

- A. Daily calibration with NBS standard to confirm Cs-137 and Co-60 peak channels, resolution (FWHM) and counts per second at 1332.5 KeV. Standard is counted in both Ge(Li) systems for 1,000 seconds. Results are plotted against 2-Sigma limits.
- B. Weekend backgrounds for 200,000 second on Ge(Li)s. Results are plotted against 2-sigma limits for resolution, and counts in channel 101-110 and 1101-1200, and in K40 Peak channel. RAP is run to determine presence of radiation other than background.
- C. EPA blind samples are counted.

2. Quality Control for wide Beta and Gamma Tech (Low-background alpha/beta counters).

- A. Daily calibration of planchets standards Sr90-3, Sr90-4 and Am241-5 are counted for 1 minute (repeated several times).

- B. Every fifth samples is a clean planchet for counting beta and alpha particle backgrounds. Results are plotted against 2-sigma limits.

3. Quality Control for Liquid Scintillation (LS233 system).

Daily calibration is performed by counting reference background and standards C-14 and H-3 for 100 minutes. Results are plotted against 2-sigma limits.

4. Quality Control for Harshaw TLD Reader

- A. Biweekly, 5 TLD chips are read which were exposed to 10 ug Ra226 in a special jig for 336 hours. Results of mr/HR are plotted against 2-sigma limits.
- B. Every 6 months, TLDs are read which were exposed to natural radiation at front and back yards of a residence.
- C. Participate in the annual International Environmental Dosimeter Intercomparison Project.

5. Quality Control for coincidence system

- A. Periodic calibration is performed with I-131 on a button. I-131 is obtained from a local Nuclear Pharmacy. Verification of I-131 activity is obtained from counting I-131 on Tan Ge(Li) system.
- B. Daily calibration is performed using Ra226 button counting for 10 minutes, repeated 3 times.

6. Quality Control for FS-8 Scaler with pancake probe in shield

- A. Planchet standard Sr90-4 is counted daily in top shelf for 1 minute and repeated 5 times. Results are plotted against 2-sigma limits for beta.
- B. A clean planchet is counted for 9000 seconds for background readings. Results are plotted against 2-sigma limits

7. Quality control for alpha scintillation counters.

Pu--239 point standard is counted monthly.

## Sample Types Analyzed in Month

<u>Sample Type</u>	<u>Analyzed in Month</u>
Community Water supplies	88
Nuclear facilities	245
DHR surveys	13
DNR surveys	21
Quality control - EPA	6
Total	<u>373</u>

Number of Samples Analyzed in Month

	water	filter	cartridge	milk	veg.	sediment	animals	smears	TLD	other
gross alpha	93	6								
gross beta	25	10								
gamma spectra	14	10	5	9	11	28	4			
H-3	21			7	3		4			
Sr-89/90	8			10						
I-131	8			7						
Ra-226	11									
Ra-228	4									
U	8									
Pu										
dose									54	
other	H-3, C-14, P-32							13		

Table 1

Radioactivity Levels in Grass Samples from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt./ Wet wt.</u>	<u>Radionuclide Concentration, pCi/kg</u>	
			<u>Cs-137</u>	<u>Be-7</u>
B1087	TLD 16	0.33	460	1,900
B1088	TLD 20	0.36	<80	2,000
B1089	TLD 22	0.37	130	1,400
B1090	TLD 28	0.35	150	1,400
B1091	TLD 44	0.38	1,800	930
B1092	TLD 45	0.36	<80	2,700
B1106*	Station #5	0.28	6,600	3,200
B1107*	Station #21	0.33	<80	4,500

- 
- Notes: 1. Samples 1087-1092 were collected on July 10, 1984; samples B1106-1107 were collected on July 20, 1984, by Georgia Power Co. staff.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 2

Radioactivity Levels in Water Samples from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross, beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B1093	TLD 22, surface	<2	3 $\pm$ 2	<200	-----
B1094	TLD 48, surface	<2	3 $\pm$ 2	<200	-----
B1098*	Station # 170	2 $\pm$ 2	4 $\pm$ 2	<300	<1
B1099*	Station # 172	5 $\pm$ 2	9 $\pm$ 2	<300	<2
B1108*	Station # 170	4 $\pm$ 3	7 $\pm$ 2	<200	<0.7
B1109*	Station # 172	<2	4 $\pm$ 2	<200	<0.7

- 
- Notes. 1. Samples B1093-1094 were collected on July 10, 1984; samples B1098-1099 were collected May 23-June 27, 1984, by Georgia Power Co. staff.
2. I-131 was calculated as of the final day of the collection period.
3. No man-made photon-emitting radionuclides were detected in the samples. (Cs-137 <20 pCi/l).

Table 3

Radioactivity Levels in Milk Samples from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B1095*	GSP	<5	2	<6	1.4	<200	<2
B1096*	Williamson	<5	4	<10	1.8	<2	<1
B1097*	Johnson Bros.	<5	<2	<6	1.7	<200	<1

- 
- Notes: 1. Samples were collected on July 2, 1984, by Georgia Power Company staff.  
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 4

Radioactivity Levels in Air Samples from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Sample Type</u>	<u>Location</u>	<u>Volume, m3</u>	<u>Radionuclide concen- tration, pCi/m<sup>3</sup></u>	
				<u>I-131</u>	<u>Gross beta</u>
B1100*	Cartridge Paper filter	Dead River Rd.	2747	<0.003 ---	--- 0.008
B1101*	Cartridge Paper filter	Plant Hatch	2526	<0.003 ---	--- 0.013
B1102*	Cartridge Paper filter	Substation	5624	<0.003 ---	--- 0.008

- 
- Notes: 1. Samples were collected on July 13, 1984, after 31-day sampling.  
2. No other man-made photon-emitting radionuclides were detected in the cartridges.



Table 5

Radioactivity Levels in Quarterly Composite Air Filters  
from the Environment of the Hatch Nuclear Plant

<u>Sample</u>	<u>Location</u>	<u>Dates, 1984</u>	<u>Volume, m3</u>	<u>Cs-137 Concentration, pCi/m3</u>
*B1103	Plant Hatch	May-June	5033	<0.3
*B1104	Substation	May-June	10622	<0.3
*B1105	Dead River Rd.	May-June	7254	<0.3

- 
- Notes:
1. Two or three filters collected successively at the same location were analyzed by gamma-ray spectrometry. See earlier reports and Table 4 for gross beta activity in individual filters and collection dates.
  2. No other photon-emitting radionuclides were detected except naturally occurring Be-7.

Table 6

Radioactivity Levels in Water Composites from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dates collected</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
B1070, 1075, 1098	#170	April, May, June, 1984	<5	<2
B1071, 1076, 1099	#172	April, May, June, 1984	<5	<2

- 
- Notes: 1. Composites were prepared with equal amounts of each sample.  
2. Other results of analyses are given in previous monthly reports and Table 2.

Table 7

Radioactivity Levels in Air Samples from the  
Environment in Georgia of the Farley Nuclear Plant

Sample No.	Sample Type	Location	Volume, m3	Radionuclide Concen- tration, pCi/m <sup>3</sup>	
				I-131	Gross beta
F789*	Cartridge Paper Filter	Great Southern Paper Co.	1459	<0.003 -----	----- 0.020
F790 *	Cartridge Paper Filter	Blakely Water Tower	2786	<0.003 -----	----- 0.007

- 
- Notes: 1. Samples were collected on June 26, 1984 after 26-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 8

Radioactivity Levels in Water Samples from  
the Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross Alpha, pCi/l</u>	<u>Gross Beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F791	Great Southern Paper Company	<2	2+2	<200	. ____
F795*	WRB-M5-0684	<2	2+2	<300	<1
F796*	WRI - M5-0684	<2	3+2	<300	<1

- 
- Notes: 1. Sample F791 was collected May 31-June 26, 1984; samples F795-796 were collected during July by Alabama Power Company staff.
2. I-131 was calculated as of the final day of the collection period.
3. No man-made photon-emitting radionuclides were detected in these samples (Cs-137 <20 pCi/l).

Table 9

Radioactivity Levels in Quarterly Composite Air Filters from the  
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dates, 1984</u>	<u>Volume, m3</u>	<u>Cs-137 concentration, fCi/m3</u>
*792	Great So. Paper Co.	April, June	5177	<0.3
*793	Blakely Water Tower	April, June	5861	<0.3

- 
- Notes: 1. Two or three filters collected successively at the same location were analyzed by gamma-ray spectrometry. See earlier reports and Table 7 for gross beta activity in individual filters and collection dates.
2. No other photon-emitting radionuclides were detected except naturally occurring Be-7.

Table 10

Radioactivity Levels in Milk Sample from the  
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137 pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F794*	Silcox MB-1110-M5 070284	<5	<2	<10	1.5	<200	<2

- 
- Notes: 1. Sample was collected on July 2, 1984, by Alabama Power Company staff.  
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 11

Radioactivity Levels in Grass Samples from the Environment  
In Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>	
			<u>Cs-137</u>	<u>Be-7</u>
F797*	FB-1218-Q5 071084	0.28	<110	2,800
F798*	FI-1601-Q5 071084	0.24	<110	2,400

- 
- Notes: 1. Samples were collected on July 10, 1984 by Alabama Power Company staff.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 12

Radioactivity Levels in Water Composites from the Environment in  
Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dates collected</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
F783, 786, 795	Background	April, May, June, 1984	<5	<2 .
F782, 787, 796	Indicator	April, May, June, 1984	<5	<2

- 
- Notes: 1. Composites were prepared with equal amounts of each sample.  
2. Other results of analyses are given in previous monthly reports and Table 8.



Table 13

Radioactivity Levels in Quarterly Composite Air Filters from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>June, 1984</u>	<u>Volume m<sup>3</sup></u>	<u>Cs-137 concentration, fCi/m<sup>3</sup></u>
*SR1558	Ga. Welcome Center	April-June	5557	<0.3
*SR1559	Hargrove	April-June	6663	<0.3
*SR1560	Augusta	May-June	4496	<0.3
*SR1561	Girard	April-June	7682	<0.3
*SR1562	GPC simulator	May-June	4959	<0.3
*SR1563	Waynesboro	May-June	3428	<0.3

- 
- Notes: 1. Two or three filters collected successively at the same location were analyzed by gamma-ray spectrometry. See earlier reports for gross beta activity in individual filters and collection dates.
2. No other photon-emitting radionuclides were detected except naturally occurring Be-7.

Table 14

Radioactivity Levels in Water Samples from the  
Environment in Georgia of the Savannah River Plant

Sample No.	Location	Inches rainfall	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l	I-131, pCi/l
SR1564	Waynesboro, rain	2.8	<1	<2	<300	----
SR1565	GPC simulator, rain	3.3	<1	<2	<200	----
SR1566	Hargrove Rd, rain	1.2	<1	<2	<200	----
SR1567	Welcome Sta., rain	0.5	<2	10+2	<200	----
SR1572	RM 146.7	-	<2	2+2	2,100+200	----
SR1573	RM 150.4	-	<2	<2	600+200	----
SR1574	RM 151.2	-	<2	3+2	800+300	----
SR1575	Port Wentworth raw composite	-	<1	<3	2,600+300	----
SR1576	N. Augusta, raw composite	-	<2	2+2	<300	----
SR1577	Savannah R., R-2	-	<2	2+2	500+200	<0.6
SR1578	Savannah R., R-10	-	<2	3+2	3,500+300	<0.6
SR1582	I&D Water Supply Port Wentworth	-	<2	2+2	3,300+300	<3

- Notes:
1. Samples SR1564-1567 were collected May 29-June 20, 1984; samples SR1572-1576 were collected June 5 July 9, 1984, by Georgia Power Company staff; samples SR1577-1578 were collected on July 10, 1984, by Savannah River Plant staff; sample SR1582 was collected July 4-10, 1984.
  2. I-131 was calculated as of the final day of the collection period.
  3. No man-made photon-emitting radionuclides were detected in samples SR1572-1578 and 1582 (Cs-137 <20 pCi/l).

Table 15

Radioactivity Levels in Fish Samples from the Environment in  
Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Type</u>	<u>Dry wt. Wet wt.</u>	<u>H-3, pCi/l</u>	<u>Cs-137 Concentration, pCi/kg</u>
SR1568	RM147.5	Redbreast Sunfish	0.24	300+200	520
SR1569	RM154.6	Redbreast Sunfish	0.27	2,600+300	320
SR1570	RM147.5	Largemouth bass	0.31	500+200	310
SR1571	Rm156.4	Largemouth bass	0.31	2,100+200	150

- 
- Note: 1. Samples were collected on July 11, 1984 by Georgia Power Co. staff.  
2. No other man-made photon-emitting radionuclides were detected.

Table 16

Radioactivity Levels in Milk Samples from the Environment in  
Georgia of the Savannah River Plant

<u>Sample No</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR1579	Gracewood	<5	2	<10	1.7	700+200	<1
SR1580	Waynesboro	<5	<2	<6	1.8	200+200	<1
SR1581	Girard	<5	4	<6	2.0	500+200	<1

- 
- Notes: 1. Samples were collected on July 12, 1984, by Savannah River Plant staff.  
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 17

Radioactivity Levels in Grass Samples from the Environment in  
Georgia of the Savannah River Plant

Sample No.	Location	Dry wt/ Wet wt.	H-3, pCi/l	Radionuclide concentration, pCi/kg	
				Cs-137	Be-7
SR1583	GPC simulator	0.33	1,300+300	84	2,100
SR1584	Waynesboro	0.21	1,000+300	<70	6,200
SR1585	Hancock Landing	0.29	1,000+300	120	3,500

- 
- Notes: 1. Samples were collected on July 24, 1984, by Georgia Power Company staff.  
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 18

Radioactivity Levels in Water Composites from the Environment in  
Georgia of the Savannah River Plant

<u>Sample Nos.</u>	<u>Location</u>	<u>Dates collected</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
SR 1452, 1518, 1536	RW 146.7	April, May, June, 1984	<5	<2
SR 1453, 1519, 1537	RW 150.4	April, May, June, 1984	<5	<2
SR 1454, 1520, 1538	RW 151.2	April, May, June, 1984	<5	<2
SR 1455, 1522, 1540	Port Wentworth	April, May, June, 1984	<5	<2

- 
- Notes: 1. Composites were prepared with equal amounts of each sample.  
2. Other results of analyses are given in previous monthly reports and Table 14.

Table 19

## Radioactivity Levels in Sand Samples from Coastal Georgia

Sample No.	Identification	Dry wt/ Wet wt.	Radionuclide concentration, pCi/kg		
			K-40	Ra-226	Ra-228
S2380	#1	0.81	3,100	2,200	3,200
S2381	#2	0.84	2,000	2,400	2,600
S2382	#3	0.87	1,600	1,300	1,000
S2383	#4	0.99	2,800	400	200
S2384	#5	0.99	3,100	1,100	800
S2385	#6	0.83	5,300	400	<200
S2386	#7	0.84	4,300	500	<200
S2387	#8	0.89	2,400	700	400
S2388	#9	0.95	2,500	400	<200
S2389	#10	0.96	1,700	600	400
S2390	#11	0.86	2,600	1,300	1,000
S2391	#12	0.96	2,100	2,800	2,300
S2392	#13	0.94	1,500	1,200	1,000
S2393	#14	0.96	1,900	300	<200
S2394	#15	0.92	1,500	2,900	2,900
S2395	#16	0.98	2,100	500	<200
S2396	#17	0.79	6,800	300	<200
S2397	#18	0.80	5,100	600	<200
S2398	#19	0.80	5,100	200	<200
S2399	#20	0.89	2,700	2,400	3,000
S2400	#21	0.95	3,400	2,200	2,700

- 
- Notes: 1. Samples were collected on July 25-27, 1984.  
 2. No other man-made photon-emitting radionuclides were detected, (Cs-137 <80 pCi/kg).

Table 20

## Radioactivity Levels in Smears from Georgia State University

<u>Sample No.</u>	<u>Identification</u>	<u>H-3, pCi/smear</u>	<u>C-14, pCi/smear</u>	<u>P-32, pCi/smear</u>
S2367	1	<2	<2	<1
S2368	2	<2	<2	<1
S2369	3	3+2	<2	<1
S2370	4	<2	<2	<1
S2371	5	<2	<2	<1
S2372	6	10+2	11+2	<2
S2373	7	<2	<2	<1
S2374	8	8+2	<2	<1
S2375	9	9+2	<2	<1
S2376	10	13+2	49+2	<3
S2377	11	6+2	<2	<1
S2378	12	container empty		
S2379	control	<2	<2	<1

- 
- Notes: 1. Samples were styrofoam packing material collected on July 10, 1984, by DHR personnel.  
 2. Samples were compared with H-3, C-14, P-32 standards, and calculated as such. C-14 results could also be S-35, for example.



Table 21

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT DT: 8405 ... MAY COMPLETE

... PAGE

1

ID#	COUNTY	WATER SUPPLY	W	WELL #	COLL DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA-226 PCI/L	RA-228 PCI/L	URANIUM PCI/L
02915846	CLARKE	SEMINOLE MOBILE HOME	4030	1	840504	8405	6	20+- 2	12.7	1.3	21+-
02915846	CLARKE	SEMINOLE MOBILE HOME	4037	0	840504	8405	6	26+- 2	3.7	< 1.0	24+-
03103130	CLAYTON	ROYAL COURT MOBILE P	4033	0	840503	8405	6	16+- 2	4.7	< 1.0	19+-
03103130	CLAYTON	ROYAL COURT MOBILE P	4034	0	840503	8405	6	19+- 2	6.3	1.7	20+-
05605146	FAYETTE	BROOKS	4024	0	840503	8405	6	59+- 4	2.0	2.2	78+- 10
05605146	FAYETTE	BROOKS	4025	0	840503	8405	6	60+- 5	1.9	1.1	81+- 10
05916422	FRANKLIN	BRITTANY HARBOR !2	4031	0	840502	8405	6	27+- 4	10.8	< 1.0	22+-
05916422	FRANKLIN	BRITTANY HARBOR !2	4035	2	840502	8405	6	28+- 4	11.7	1.4	20+-
05916422	FRANKLIN	BRITTANY HARBOR !2	4039	1	840502	8405	6	27+- 3	11.2	< 1.0	17+-
06907003	HALL	LAKE LANIER SAILING	4027	0	840503	8405	6	14+- 2	0.4	< 1.0	19+-
06907003	HALL	LAKE LANIER SAILING	4038	0	840503	8405	6	14+- 2	0.2	< 1.0	15+-
09315815	LUMPKIN	BUTLERS MOBILE HOME	4028	0	840503	8405	6	< 2			
09315815	LUMPKIN	BUTLERS MOBILE HOME	4032	0	840503	8405	6	< 1			
11410444	PIKE	MOLENA	4026	0	840503	8405	6	69+- 5	2.1	< 1.0	92+- 10
11410444	PIKE	MOLENA	4029	2	840503	8405	6	46+- 4	1.5	< 1.0	57+-
11410444	PIKE	MOLENA	4036	1	840503	8405	6	3+- 1			
11410444	PIKE	MOLENA, CITY OF	4040	4	840503	8405	3	136+- 8	1	< 1.0	171+- 10
13624205	THOMAS	SUGARWOOD ESTATES MH	4022	1	840425	8405	1	2+- 1			
13629915	THOMAS	TINY ACRES MOBILE HD	4021	0	840425	8405	1	< 3			
15213353	WEESTER	WESTON	4023	0	840425	8405	1	< 3			
15913714	WORTH	WARWICK	4020	2	840424	8405	1	< 3			

TES: TYPE -1,0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
: COLLECT DATE TYPES -1,0,2,5 = COMPOSITE DATE OR END COLLECTION DATE

ID#	COUNTY	WATER SUPPLY	W	WELL #	COLL DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
00300109	BACON	ALMA	4049	1	840510	8406	1	2+- 2			
00300294	BACON	HIGHLAND PARK SUBDIV	4062	1	840510	8406	1	< 2			
00800828	BARTOW	EDWARDS TRAILER PARK	4047	1	840502	8406	4	< 3			
01000466	BERRIEN	ALAPAH, CITY OF	4083	1	840524	8406	3	5+- 2	8.4		
01000484	BERRIEN	NASHVILLE	4078	0	840529	8406	1	< 2			
01001271	BERRIEN	SOUTHWOOD MOBILE HOM	4074	1	840524	8406	1	< 3			
01101463	BIEB	MACON TRAILER PARK	4056	0	840518	8406	1	1+- 1			
01100649	BIEB	PINE ACRES MOBILE HO	4051	0	840516	8406	1	1+- 1			
01400871	BROOKS	SHADY ACRES SUBDIVIS	4071	1	840605	8406	1	< 2			
01400880	BROOKS	TROUPVILLE MOBILE ES	4086	1	840605	8406	1	< 3			
01801483	BUTTS	GEORGIA DIAGNOSTIC	4087	3	840607	8406	4	< 1			
01801483	BUTTS	GEORGIA DIAGNOSTIC	4088	2	840607	8406	4	< 2			
01801483	BUTTS	GEORGIA DIAGNOSTIC	4089	1	840607	8406	4	< 1			
01801483	BUTTS	GEORGIA DIAGNOSTIC	4090	4	840607	8406	4	< 1			
02001532	CAMDEN	KINGSLAND	4094	0	840614	8406	1	< 2			
02024247	CAMDEN	NAVAL BASE SUPPORT	4041	1	840517	8406	4	< 4			
02527348	CHATHAM	CHATHAM CO PARKWAY	4070	1	840511	8406	4	< 2			
02502123	CHATHAM	COTTONVALE ESTATES	4066	1	840515	8406	1	< 2			
02502132	CHATHAM	DYCHES W.W. < MOBILE	4061	1	840515	8406	1	< 2			
02514388	CHATHAM	GOERGETOWN SD	4109	0	840620	8406	1	< 2			
02522963	CHATHAM	GROVE POINT MOBILE E	4067	1	840515	8406	1	< 2			
02502257	CHATHAM	LARCHMONT	4085	1	840606	8406	1	< 2			
02502345	CHATHAM	REGENCY MOBILE HOME	4076	1	840606	8406	1	< 2			
02502381	CHATHAM	SKIDAWAY MOBILE ESTA	4052	2	840515	8406	1	< 2			
02502406	CHATHAM	SOUTHSIDE MOBILE EST	4054	1	840515	8406	1	< 2			
02502080	CHATHAM	SOUTHERN FOUNTAIN M.	4082	1	840605	8406	1	< 2			
02504144	CHATHAM	WHITEFIELD MOBILE HO	4048	1	840515	8406	1	< 2			
03203146	CLINCH	HOMERVILLE	4106	0	840614	8406	1	< 3			
03403317	COFFEE	AMERCE	4065	1	840510	8406	1	< 3			
04304158	DECATUR	ATTAPULGUS	4092	2	840607	8406	3	14+- 2	11.2	< 1.0	3+-
04904682	EARLY	JAKIN	4059	0	840417	8406	1	< 3			
05916501	FRANKLIN	BRITTANY HARBOR WEST	4080	0	840502	8406	3	4+- 2	1.8		
06306248	GLYNN	YOUTH BOYS ESTATE IN	4105	0	840619	8406	1	< 2			
06506491	GRADY	CAIRO	4055	7	840510	8406	1	< 2			
06927357	HALL	BANKS MOUNTAIN SD	4068	1	840510	8406	4	< 1			
06911038	HALL	LANIER VALLEY SUBDIV	4057	0	840508	8406	1	< 1			
06916124	HALL	LAKE LANIER MOBILE H	4060	0	840508	8406	1	< 2			
06927366	HALL	SINGLETON MHP	4098	1	840615	8406	4	2+- 1			
07023106	HANCOCK	WOODLAND VALLEY SD	4063	0	840508	8406	1	< 3			
07807814	JACKSON	NICHOLSON WATER ASSO	4084	0	840504	8406	3	4+- 1	0.4		
08826885	LEE	MORGAN ESTATES SD	4045	1	840511	8406	4	< 2			
08920884	LIBERTY	FLOYDES MOBILE HOME	4095	2	840613	8406	1	< 2			
08927070	LIBERTY	GUM BRANCH MHP	4042	0	840505	8406	4	< 2			
09208972	LOWNDES	GREEN VALLEY MOBILE	4050	0	840522	8406	1	< 2			
09220064	LOWNDES	GREENERIAR ESTATES	4077	1	840418	8406	1	< 3			
09214949	LOWNDES	PARKER MATHIS SUBDIV	4064	1	840418	8406	1	2+- 2			
09224048	LOWNDES	REMERTON, TOWN OF	4075	1	840419	8406	1	2+- 2			
09209106	LOWNDES	STALVEY TRAILER PARK	4043	4	840524	8406	4	< 2			
09109712	MITCHELL	HINSONTON WATER ASSO	4104	1	840612	8406	1	2+- 2			
0822745	OCCONEE	BROOKWOOD ESTATES	4044	3	840418	8406	4	< 2			
09245561	PUTNAM	SUGAR CREEK SD	4046	2	840516	8406	4	< 3			

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: COLLECT DATE TYPES -1,0,2,5 = COMPOSITE DATE OR END COLLECTION DATE

ID#	COUNTY	WATER SUPPLY	W	WELL #	COLL DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
12711335	STEPHENS	TOCODA	4103	0	840615	8406	1	< 1			
13611924	THOMAS	TOWN OF OCHLOCKNEE	4093	2	840605	8406	1	< 3			
13617241	THOMAS	ROSE CITY	4072	1	840524	8406	3	2+ 2			
13711994	TIFT	OMEGA	4058	1	840522	8406	1	< 3			
13717743	TIFT	PINE HILL MOBILE HOM	4107	2	840618	8406	1	20+ 2	24.8	< 1.0	
13712128	TIFT	SELPH TRAILER PARK	4091	1	840531	8406	1	< 2			
13722036	TIFT	TOWN : COUNTRY MOBILE	4096	1	840531	8406	1	< 2			
14712875	WALTON	MONROE	4102	0	840614	8406	1	< 1			
14913146	WARREN	TOWN OF CAMAK	4069	3	840524	8406	4	2+ 1			
14913146	WARREN	TOWN OF CAMAK	4099	0	840524	8406	4	29+ 2	1.4	< 1.0	51+
14913146	WARREN	TOWN OF CAMAK	4100	2	840524	8406	4	5+ 1	0.6		
14913146	WARREN	TOWN OF CAMAK	4101	1	840524	8406	4	119+ 4	3	< 1.0	98+
15113338	WAYNE	WAYNE CORRECTIONAL I	4097	1	840612	8406	1	< 1			
15613528	WILCOX	ABBEVILLE	4053	0	840517	8406	1	< 2			
15613537	WILCOX	PINEVIEW	4079	0	840517	8406	1	< 2			
15613555	WILCOX	ROCHELLE	4073	0	840504	8406	1	< 2			
15913680	WORTH	POULAN	4081	1	840501	8406	1	3+ 2	1.9		
15925150	WORTH	PINE NEEDLE LANE TRA	4108	1	840612	8406	1	< 2			

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ID#	COUNTY	WATER SUPPLY	W	WELL #	COLL DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
01000475	BERRIEN	ENIGMA	4147	2	840626	8407	3	7+- 3			
01400817	BROOKS	BARWICK	4119	0	840618	8407	1	< 2			
01634482	BULLOCH	NELSON LAW WATER SYS	4118	0	840620	8407	1	< 2			
02201703	CARROLL	VILLA RICA	4165	0	840725	8407	1	< 1			
02502178	CHATHAM	GARDEN ACRES TRAILER	4160	0	840717	8407	1	< 2			
02501926	CHATHAM	POOLER	4115	0	840620	8407	1	< 2			
02802902	CHEROKEE	CANTON TEXTILE MILLS	4164	0	840724	8407	1	< 1			
02924912	CLARKE	NORWOOD VILLAGE MH	4154	2	840630	8407	4	< 2			
03403344	COFFEE	NICHOLLS	4133	0	840629	8407	1	2+- 2			
03414081	COFFEE	TOWN : COUNTRY TRAIL	4143	0	840718	8407	1	< 4			
03603737	COLUMBIA	MARTINEZ WATER ASSOC	4162	0	840718	8407	1	< 1			
03806278	COWETA	QUAIL HOLLOW PARK	4114	3	840626	8407	4	3+- 1			
03904023	CRAWFORD	ROBERTA	4161	0	840719	8407	1	< 2			
04204124	DAWSON	DAWSONVILLE	4148	0	840717	8407	1	< 2			
04323852	DECATUR	MOBILE CITY MHP	4150	1	840405	8407	1	< 2			
04804630	DOUGLAS	DOUGLAS COUNTY WATER	4159	0	840715	8407	1	< 2			
05816708	FORSYTH	BARBERRY HILLS S/D	4152	0	840717	8407	1	< 1			
05805733	FORSYTH	BEAVER RUIN S/D	4156	0	821210	8407	1	< 2			
06005934	FULTON	ATLANTA	4163	0	840724	8407	1	< 2			
06206153	GLASCOCK	GIBSON	4158	1	840712	8407	1	< 2			
06606586	GREENE	WHITE PLAINS	4141	2	840711	8407	4	42+- 5			19+- 2
07127448	HARLSON	PINE MEADOWS SD	4140	1	840613	8407	4	< 2			
07607546	HOUSTON	HOUSTON COUNTY WATER	4110	1	840625	8407	1	4+- 1	0.3		
07607555	HOUSTON	HOUSTON COUNTY WATER	4112	1	840619	8407	1	< 2			
07607546	HOUSTON	HOUSTON COUNTY WATER	4123	2	840625	8407	1	< 1			
07617387	HOUSTON	HOUSTON CO. SYSTEM, FE	4111	0	840620	8407	1	4+- 1			
07607564	HOUSTON	HOUSTON COUNTY WATER	4113	1	840619	8407	1	< 3			
07607573	HOUSTON	HOUSTON COUNTY WATER	4117	1	840619	8407	1	< 3			
08714616	LAURENS	OLD SOUTH ESTATES	4166	0	840725	8407	1	< 2			
08933074	LIBERTY	FLEMING ESTATES MOBI	4155	0	821010	8407	1	< 2			
09125558	LONG	AARON'S MHP	4120	0	840627	8407	1	< 2			
09125521	LONG	HARVEY GOLDEN MHP	4122	0	840627	8407	1	< 2			
09125549	LONG	HORSE CREEK TP	4124	0	840627	8407	1	< 2			
09208802	LOWNDES	HAHIRA	4121	1	840619	8407	1	< 2			
0922635	LOWNDES	LOCH LAUREL MHP	4126	1	840618	8407	4	< 2			
09225661	LOWNDES	PECAN GROVE MHP	4144	1	840507	8407	1	2+- 1			
0209755	MONROE	CULLODEN	4142	2	840710	8407	4	< 2			
0833744	OCONEE	ELDER HEIGHTS SUBDIV	4129	2	840711	8407	4	< 1			
1110328	PEACH	BYRON	4116	0	840615	8407	1	< 1			
1118189	PEACH	HAYES MHP	4125	1	840703	8407	4	4+- 1			
1127382	PEACH	MOBILE MANOR EST	4128	1	840624	8407	4	1+- 1			
3425851	TELFAIR	MILAN #3	4134	0	840703	8407	1	2+- 2			
3411762	TELFAIR	MILAN	4137	0	840703	8407	1	2+- 1			
3425860	TELFAIR	MILAN #2	4139	2	840710	8407	1	2+- 2			
3623576	THOMAS	OAKLAND SUBDIVISION	4130	3	840628	8407	4	1+- 1			
3623576	THOMAS	OAKLAND SUBDIVISION	4151	1	840628	8407	1	< 3			
3716184	TIFT	PEEBLE BROOK MEADOWS	4135	1	840618	8407	1	< 2			
3816251	TOCOMBS	CATOES TRAILER PARK	4146	0	840718	8407	1	< 2			
4323159	TWIGGS	KAOLIN HEIGHTS SUBDI	4157	0	830223	8407	1	< 2			
5118458	WAYNE	ARROWHEAD VILLAGE TR	4149	0	840716	8407	1	< 2			
5124434	WAYNE	BON AIR APARTMENT	4153	0	840718	8407	1	< 2			

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ID#	COUNTY	WATER SUPPLY	W	WELL #	COLL DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
15124258	WAYNE	DRIFTWOOD MOBILE HOM	4132	0	840628	8407	1	< 2			
15113277	WAYNE	OLUM	4138	0	840628	8407	1	< 2			
15124416	WAYNE	REST AWHILE NURSING	4131	0	840628	8407	1	< 2			
15113286	WAYNE	SCREVEN	4145	0	840716	8407	1	< 2			
15413393	WHITE	HELEN	4127	4	840709	8407	4	5+ 2			
15913671	WORTH	ISABELLA WATER SYSTE	4136	0	840614	8407	1	< 2			

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Table 22

**Exposure Rates at Nuclear Facilities  
Measured with TLD's**

GEORGIA POWER PLANT HATCH ... 840402-840710: 99 DAYS

TLD#	MR	MICRR/HR	MR/YR
1.0 (+-)	13.6 2.5	5.7 1.0	50.2 9.1
2.0 (+-)	12.3 2.3	5.2 1.0	45.3 8.4
3.0 (+-)	14.0 2.6	5.9 1.1	51.7 9.7
4.0 (+-)	10.1 2.5	4.3 1.1	37.3 9.2
5.0 (+-)	12.7 2.0	5.3 0.9	46.8 7.5
6.0 (+-)	12.3 2.6	5.2 1.1	45.2 9.4
7.0 (+-)	13.2 3.0	5.5 1.3	48.6 11.2
8.0 (+-)	11.1 2.6	4.7 1.1	40.9 9.6
10.0 (+-)	12.2 2.2	5.1 0.9	45.0 8.3
11.0 (+-)	9.8 2.0	4.1 0.8	36.3 7.3
12.0 (+-)	12.3 2.7	5.2 1.1	45.4 9.9
13.0 (+-)	17.9 2.3	7.5 1.0	66.0 8.4 ... <> 95% NORMAL DIST.
14.0 (+-)	12.8 2.0	5.4 0.8	47.2 7.3
15.0 (+-)	13.0 2.8	5.5 1.2	48.0 10.5
16.0 (+-)	11.7 2.2	4.9 0.9	43.3 8.2
17.0 (+-)	12.3 1.9	5.2 0.8	45.3 7.1
18.0 (+-)	13.5 1.9	5.7 0.8	49.6 7.1

19.0 (+-)	12.8 1.8	5.4 0.7	47.2 6.5	2
20.0 (+-)	11.4 2.2	4.8 0.9	42.1 8.1	
21.0 (+-)	11.8 2.2	4.9 0.9	43.4 8.2	
22.0 (+-)	14.3 2.3	6.0 1.0	52.9 8.5	
23.0 (+-)	10.5 2.0	4.4 0.8	38.8 7.2	
24.0 (+-)	13.0 2.1	5.5 0.9	47.9 7.6	
25.0 (+-)	9.3 1.7	3.9 0.7	34.1 6.3	
26.0 (+-)	9.8 1.6	4.1 0.7	36.3 6.0	
27.0 (+-)	11.6 2.3	4.9 1.0	42.9 8.4	
28.0 (+-)	12.6 1.9	5.3 0.8	46.5 6.9	
29.0 (+-)	8.8 1.9	3.7 0.8	32.6 6.8	
30.0 (+-)	10.7 1.7	4.5 0.7	39.5 6.2	
31.0 (+-)	10.2 2.2	4.3 0.9	37.7 8.2	
32.0 (+-)	10.7 2.1	4.5 0.9	39.4 7.6	
33.0 (+-)	13.4 2.4	5.6 1.0	49.4 8.9	
34.0 (+-)	12.0 2.7	5.0 1.1	44.1 9.9	
35.0 (+-)	12.5 2.5	5.3 1.0	46.1 9.1	
36.0 (+-)	8.3 2.0	3.5 0.9	30.7 7.5	
37.0 (+-)	10.0 1.9	4.2 0.8	36.8 6.9	
38.0 (+-)	8.8 1.8	3.7 0.7	32.3 6.5	
39.0 (+-)	10.7 1.5	4.5 0.6	39.6 5.7	
40.0 (+-)	10.5 1.9	4.4 0.8	38.7 6.4	

41.0	10.7	4.5	39.6
(+-)	2.1	0.9	7.8

3

42.0	12.6	5.3	46.3
(+-)	2.2	0.9	8.0

43.0	11.3	4.8	41.8
(+-)	2.1	0.9	7.6

44.0	10.6	4.5	39.1
(+-)	2.2	0.9	8.3

45.0	13.4	5.6	49.3
(+-)	2.4	1.0	8.7

46.0	13.4	5.7	49.5
(+-)	2.6	1.1	9.4

47.0	11.8	5.0	43.6
(+-)	2.1	0.9	7.6

48.0	14.0	5.9	51.7
(+-)	2.3	1.0	8.3

49.0	14.4	6.1	53.2
(+-)	2.4	1.0	8.9

NET. AVG.:	11.9	5.0	43.9
(+-)	3.5	1.5	13.1



ATE BACKGROUND HATCH ... 840402-840710: 99 DAYS

TLD#	MR	MICRR/HR	MR/YR
4.0	19.0	8.0	69.9
(+-)	3.4	1.4	12.4
5.0	17.1	7.2	63.2
(+-)	3.0	1.2	10.9
6.0	12.8	5.4	47.1
(+-)	2.1	0.9	7.8
7.0	13.9	5.8	51.1
(+-)	2.4	1.0	8.7
8.0	11.6	4.9	42.7
(+-)	2.7	1.2	10.1
NET. AVG.:	14.9	6.3	54.8
(+-)	6.2	2.6	22.8



GEORGIA INSTITUTE OF TECHNOLOGY  
OFFICE OF INTERDISCIPLINARY PROGRAMS  
205 OLD CIVIL ENGINEERING BUILDING  
ATLANTA, GEORGIA 30332

ENVIRONMENTAL RESOURCES CENTER  
(404) 894.2375

BIOENGINEERING CENTER  
(404) 894-2375

DATE: September 12, 1984

TO: James Hardeman, Program Manager  
Environmental Radiation Program  
Environmental Protection Division, DNR

FROM: Bernd Kahn, Director  
Environmental Resources Center

SUBJECT: Monthly Report of Activities for the State by the Environmental  
Radiation Laboratory, August, 1984

---

The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental radionuclide monitoring at nuclear facilities by DNR staff	Table 1-15
Other environmental radionuclide monitoring by DNR staff	Table 16
Radioactivity monitoring by DNR staff	Table 17
Monitoring by DNR staff of Community Water Systems	Table 18
Environmental radiation monitoring at nuclear facilities by DNR staff	Table 19

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity that may be attributed to the facility:

Tables 12,14,15 -- H-3 in milk, rainwater, surface water and grass at the Savannah River Plant.

All other radionuclides in Tables 1-15 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables.

The sample of beach sand reported in Table 16 was not elevated in radioactivity.

The smears submitted for LS counting by DHR staff were not elevated in I-125 (see Table 17).

Radioactivity results for community water supplies, compiled in Table 18, include completed values for samples WS4041-4166 and partial data for samples WS4167-4310. The following completed samples have radium levels above the guidelines of 5 pCi/l:

WS 4083	Alapaha
WS 4092	Attapulcus
4107	Pine Hill MH
4147	Enigma

High uranium concentrations (> 15 pCi/l) were found in the following:

WS 4099	Camak
4101	
4141	White Plains
WS 4193	Davis MHP

The gross alpha particle activity exceeded the uranium activity by more than 15 pCi/l in sample WS 4101 but not in WS 4099.

TLD measurements obtained in the vicinity of The Kings Bay Submarine Base and at background locations are reported in Table 19. Ranges of exposure were:

<u>Location</u>	<u>Near Plant</u>	<u>Background</u>
Kings Bay	34-54 mR/yr	40-51 mR/yr

None of the values are attributed to Base operation.

The types of samples and number of each that were analyzed are summarized in the following two tables.

## Sample Types Analyzed in Month

<u>Sample Types</u>	<u>Analyzed in Month</u>
Community Water Supplies	143
Nuclear facilities	233
DHR surveys	6
DNR surveys	1
Quality control - EPA	9
Total	<u>382</u>

Number of Samples Analyzed in Month

	water	air filter	air cartridge	milk	grass, veg.	soil, sediment	animals	smears	TLD	Total
gross alpha	148	5								153
gross beta	22	6								28
gamma spectra	21	4	5	7	11	58				107
H-3	22			7	2					31
SR-89/90	3									3
I-131	11			7						18
Ra-226	7									7
Ra-228	7									7
U	3									3
Pu										
dose										
other (I-125)								6		6
Total	244	15	5	21	13	58		6		362

Table 1

Radioactivity Levels in Milk Samples from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137, K, pCi/l</u>	<u>g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B1110*	GSP	<6	1.5	<200	<1
B1111*	Williamson	<10	1.8	<200	<1
B1112*	Johnson Bros.	<10	1.6	<200	<1

---

Notes: 1. Samples were collected on July 30, 1984, by Georgia Power Company staff.

2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 2

Radioactivity Levels in Sediment Samples from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>			
			<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
B1113	4A	0.24	800	9,600	1,600	1,600
B1114	4B	0.36	150	10,600	1,700	1,500
B1115	1A	0.77	<40	5,200	600	<200
B1116	1B	0.79	<40	5,100	500	300
B1117	2A	0.73	<40	5,100	200	200
B1118	2B	0.77	<40	5,500	300	<200
B1119	3A	0.76	<40	4,300	<200	<200
B1120	3B	0.78	<40	4,700	300	300

---

Notes: 1. Samples were collected on August 14, 1984.

2. No other man-made photon-emitting radionuclides were detected.

Table 3

Radioactivity Levels in Grass Samples from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>	
			<u>Cs-137</u>	<u>Be-7</u>
B1121*	Sta. #21	0.44	<80	4,700
B1122*	Sta. #5	0.47	700	4,000

- 
- Notes: 1. Samples were collected on August 16, 1984, by Georgia Power Co. staff.
3. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.



Table 4

Radioactivity Levels in River Water Samples from  
the Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	Gross alpha, <u>pCi/l</u>	Gross beta, <u>pCi/l</u>	H-3, <u>pCi/l</u>	I-131, <u>pCi/l</u>
F799*	WRI-M5-0784	<2	5+2	200+200	<0.3
F800*	WRB-M5-0784	<2	3+2	<200	<0.3
F801	Great Southern Paper	<2	4+2	<200	----

- 
- Notes:
1. Samples F799-800 were collected during July, 1984, by Alabama Power Co. staff; sample F801 was collected June 26-July 31, 1984.
  2. I-131 was calculated as of the final day of the collection period.
  3. No man-made photon-emitting radionuclides were detected in these samples (Cs-137 <20 pCi/l).

Table 5

Radioactivity Levels in Milk Sample from  
the Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F802*	MB-1110-M5 081384	8	1.7	<300	<1

---

Notes: 1. Sample was collected on August 13, 1984, by Alabama Power Co. staff.

2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 6

Radioactivity Levels in Sediment Samples from the  
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>			
			<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
F803	1A	0.77	<60	2,700	700	1,000
F804	1B	0.67	<60	6,100	1,900	3,200
F805	2B	0.86	<60	3,600	2,400	5,800
F806	2A	0.79	<60	3,200	600	1,000
F807	3A	0.74	<60	5,700	3,500	5,700
F808	3B	0.77	<60	5,100	1,800	2,900

- 
- Notes: 1. Samples were collected on August 15, 1984.
2. No other man-made photon-emitting radionuclides were detected.

Table 7

Radioactivity Levels in Sediment and Soil Samples from the  
Environment of the Kings Bay Nuclear Submarine Base

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>			
			<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
KB183	K-1	0.74	<60	3,000	1,100	1,100
KB184	K-2	0.73	<60	2,900	600	700
KB185	K-3	0.61	<60	6,200	1,100	800
KB186	K-4	0.46	<60	10,200	1,400	1,500
KB187	K-5	0.51	100	6,700	900	800
KB188	K-6	0.43	150	7,200	1,700	1,500
KB189	K-7	0.72	<60	5,300	1,200	1,600
KB190	K-8	0.72	<60	4,400	1,400	1,600
KB191	K-9	0.72	<60	3,900	1,500	2,100
KB192	K10	0.58	<60	10,000	1,400	1,200
KB193	TLD 14	0.99	80	1,300	400	500
KB194	TLD 15	0.99	950	1,100	800	600
KB201	TLD 5	0.97	220	1,300	400	400
KB202	TLD 8	0.99	90	2,300	400	400

- 
- Notes: 1. Samples were collected on August 7, 1984.
2. No other man-made photon-emitting radionuclides were detected.

Table 8

Radioactivity Levels in Grass Samples from the  
Environment of the Kings Bay Nuclear Submarine Base

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>	
			<u>Cs-137</u>	<u>Be-7</u>
KB195	TLD 14	0.29	110	4,100
KB196	TLD 15	0.41	<100	3,300
KB203	TLD 5	0.25	690	4,500
KB204	TLD 8	0.29	<100	2,600

- 
- Notes: 1. Samples were collected on August 7-8, 1984.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 9

Radioactivity Levels in Water Samples from  
the Environment of the Kings Bay Nuclear Submarine Base

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>
KB197	Sed. sta K-4	<55	350 $\pm$ 50	<200
KB198	Sed. sta. K-6	<55	370 $\pm$ 50	<200
KB199	Sed. sta. K-10	<55	420 $\pm$ 60	<300
KB200	Sed. sta. K-15	<55	330 $\pm$ 60	<300

---

Notes: 1. Samples were collected August 7, 1984.

2. The gross beta activity is elevated because of K-40 in sea water; "less than" gross alpha activity values are high because only small volumes (10 ml) could be used due to salt content.

3. No man-made photon-emitting radionuclides were detected in these samples (Cs-137 <20 pCi/l).

Table 10

Radioactivity Levels in Water Composites from the  
Environment in Georgia of the Savannah River Plant

<u>Sample Nos.</u>	<u>Location</u>	<u>Dates collected</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
SR1464,1543	I & D Water	May, June, 1984	<5	<2
SR1539, 1456, 1521	N. Augusta	April, May, June, 1984	<5	<2
SR1506, 1529	Hwy 301	April, May, 1984	<5	<2

- 
- Notes: 1. Composites were prepared with equal amounts of each sample.
2. Other results of analyses are given in previous monthly reports.

Table 11

Radioactivity Levels in Air Samples from the Environment  
in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume m3</u>	<u>Radionuclide concen- tration, pCi/m3</u>			<u>Inches Rainfall</u>
				<u>I-131</u>	<u>Gross alpha</u>	<u>beta</u>	
SR1586	Cartridge Paper filter	Girard	2877	<0.005 -----	----- <0.001	----- 0.002	no data
SR1587	Cartridge Paper filter	Ga. Welcome	2731	<0.005 -----	----- <0.001	----- 0.001	no data
SR1588	Cartridge Paper filter	Augusta	2909	<0.005 -----	----- <0.001	----- 0.002	3.5
SR1589	Cartridge Paper filter	Waynesboro	2603	<0.005 -----	----- <0.001	----- 0.002	3.6
SR1590	Cartridge Paper filter	Simulator	3269	<0.005 -----	----- <0.001	----- 0.002	4.0

- 
- Notes: 1. Samples were collected on July 26, 1984 after 36-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.



Table 12

Radioactivity Levels in Water Samples from  
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Inches Rainfall</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 1591	GPC simulator, rain	4.0	<1	2 $\pm$ 2	1100 $\pm$ 200	-----
SR 1592	Girard, rain	no data	4 $\pm$ 2	15 $\pm$ 3	1400 $\pm$ 200	-----
SR 1593	Waynesboro, rain	3.6	<2	3 $\pm$ 2	400 $\pm$ 200	-----
SR 1594	Augusta, rain	3.5	<2	2 $\pm$ 2	<200	-----
SR 1595	Ga. Welcome, rain	no data	7 $\pm$ 2	30 $\pm$ 2	<200	-----
SR 1596	Hargrove Rd., rain	3.6	<1	3 $\pm$ 2	500 $\pm$ 200	-----
SR 1597	Savannah R. Hwy 301	-----	<1	3 $\pm$ 2	<200	-----
SR 1607	Savannah R. R-2	-----	<2	<2	300 $\pm$ 200	<1
SR 1608	Savannah R. R-10	-----	<1	2 $\pm$ 1	2200 $\pm$ 300	<1
SR 1609	I & D Water Supply Port Wentworth	-----	<2	2 $\pm$ 2	1700 $\pm$ 300	<1
SR 1610	RM 146.7	-----	<1	3 $\pm$ 2	1900 $\pm$ 300	-----
SR 1611	RM 150.4	-----	2 $\pm$ 1	4 $\pm$ 2	1000 $\pm$ 300	-----

Table 12 (cont)

Radioactivity Levels in Water Samples from  
the Environment in Georgia of the Savannah River Plant

SR 1612	RM 151.2	-----	<2	<u>2</u> +2	400+ <u>400</u>	-----
SR 1613	Port Wentworth, raw composite	-----	<2	<u>3</u> +2	2400+ <u>400</u>	-----
SR 1614	N. Augusta, raw composite	-----	<1	<u>3</u> +2	<400	-----

- 
- Notes: 1. Samples SR1591-1596 were collected June 20-July 16, 1984; sample SR1597 was collected May 29-July 26, 1984; samples SR1607-1608 were collected August 7, 1984, by Savannah River Plant staff; sample SR1609 was collected August 7, 1984, by Savannah River Plant staff; samples SR 1610-1614 were collected July 9-August 7, 1984, by Georgia Power Company staff.
2. I-131 was calculated as of the final day of the collection period.
3. No man-made photon-emitting radionuclides were detected in samples SR 1597, and 1607-1614. (Cs-137 <20 pCi/l).

Table 13

Radioactivity Levels in Sediment Samples from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>			
			<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
SR 1598	SAV-1	0.57	100	6,000	700	900
SR 1599	SAV-2	0.43	<50	9,300	1,200	1,000
SR 1600	SAV-3	0.76	55	6,400	500	500
SR 1601	SAV-4	0.32	250	9,700	1,200	800
SR 1602	SAV-5	0.34	210	11,500	1,200	1,300
SR 1603	SAV-6	0.45	140	7,800	800	700
SR 1617	1A	0.59	400	22,000	1,400	1,500
SR 1618	1B	0.70	100	13,700	400	400
SR 1619	2A	0.77	<50	9,600	700	800
SR 1620	2B	0.74	<50	10,800	600	300
SR 1621	3A	0.57	<50	13,200	2,900	1,900
SR 1622	3B	0.80	<50	200	200	<200
SR 1623	4A	0.75	<50	9,100	1,900	1,900
SR 1624	4B	0.74	60	13,400	800	700
SR 1625	5A	0.56	390	17,000	2,300	1,200
SR 1626	5B	0.67	130	18,200	1,300	1,200
SR 1627	6A	0.66	150	18,500	1,800	1,500
SR 1628	6B	0.66	120	17,900	1,800	1,700
SR 1629	7B	0.70	180	17,100	1,400	1,200

Table 13 (cont)

Radioactivity Levels in Sediment Samples from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>			
			<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
SR 1630	7B	0.67	330	21,000	1,500	1,300
SR 1631	8A	0.73	<50	15,800	1,800	1,700
SR 1632	8B	0.64	210	19,300	1,500	1,300
SR 1633	9A	0.62	350	15,200	2,200	1,500
SR 1634	9B	0.59	440	38,000	3,600	3,100
SR 1635	10A	0.70	610	15,400	1,300	1,100
SR 1636	10B	0.65	210	21,000	1,700	1,600
SR 1637	11A	0.66	450	17,900	2,000	2,300
SR 1638	11B	0.75	51	11,500	700	500
SR 1639	12A	0.55	1,400	18,000	2,300	1,900
SR 1640	12B	0.73	320	14,700	1,500	1,400
SR 1641	13A	0.58	1,000	21,000	1,900	1,900
SR 1642	13B	0.55	1,200	18,700	1,900	1,100
SR 1643	14A	0.75	140	11,500	900	1,000
SR 1644	14B	0.67	660	13,000	1,100	900
SR 1645	15A	0.76	190	8,600	400	400
SR 1646	15B	0.71	350	6,500	800	600
SR 1647	16A	0.64	1,600	16,900	2,000	1,200
SR 1648	16B	0.76	120	7,800	300	<200
SR 1649	17A	0.76	280	11,300	1,400	1,700
SR 1650	17B	0.76	290	11,100	700	500

Table 13 (cont)

Radioactivity Levels in Sediment Samples from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>			
			<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
SR 1651	18A		In process			
SR 1652	18B					
SR 1653	19A					
SR 1654	19B					
SR 1655	20A					
SR 1656	20B					
SR 1657	21A					
SR 1658	21B					

- 
- Notes: 1. Samples SR 1598-1603 were collected on August 10, 1984; samples SR 1617-1658 were collected August 20-23, 1984.
2. No other man-made photon-emitting radionuclides were detected.

Table 14

Radioactivity Levels in Milk Samples from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR1604	Girard	<6	1.8	<200	<1
SR1605	Waynesboro	<10	1.6	<200	<1
SR1606	Gracewood	<6	1.7	800±200	<1

- 
- Notes: 1. Samples were collected on August 9, 1984, by Savannah River Plant staff.  
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 15

Radioactivity Levels in Grass Samples from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>H-3, pCi/l</u>	<u>Radionuclide concentration, pCi/kg</u>	
				<u>Cs-137</u>	<u>Be-7</u>
SR1615	Waynesboro	0.23	1,800+300	<70	2,000
SR1616	Hancock Landing	0.32	11,200+500	<70	1,900

- 
- Notes: 1. Samples were collected on August 20, 1984, by Georgia Power Co. staff.
2. No other man-made photon-emitting radionuclides were detected.  
Be-7 is formed in nature.

Table 16

Radioactivity Levels in Sand Sample from the  
Environment of the Little Talbot State Park, FLorida

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>			
			<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
S2401	beach	0.79	<50	1,100	900	400

- 
- Notes: 1. Samples were collected on August 5, 1984.
2. No other man-made photon-emitting radionuclides were detected.



Table 17

Radioactivity Levels in Smears from  
the American Red Cross, Atlanta

<u>Sample No.</u>	<u>Identification</u>	<u>I-125, pCi/smear</u>
S2402	1	<2
S2403	2	<2
S2404	3	<2
S2405	4	2+1
S2406	5	<2
S2407	6	<2

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Note: Samples were styrofoam packing material collected on August 14, 1984,  
by DHR personnel.

25  
Table 18

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT DT: 8406 ... JUNE COMPLETE

... PAGE 1

#	COUNTY	WATER SUPPLY	W	WELL #	COLL DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA-226 PCI/L	RA-228 PCI/L	URANIUM PCI/L
300109	BACON	ALMA	4049	1	840510	8406	1	2+ 2			
300294	BACON	HIGHLAND PARK SUBDIV	4062	1	840510	8406	1	< 2			
600828	EARTOW	EDWARDS TRAILER PARK	4047	1	840502	8406	4	< 3			
000466	BERRIEN	ALAPAHA ,CITY OF	4083	1	840524	8406	3	5+ 2	8.4	< 1.0	
000484	BERRIEN	NASHVILLE	4078	0	840529	8406	1	< 2			
001271	BERRIEN	SOUTHWOOD MOBILE HOM	4074	1	840524	8406	1	< 3			
101463	BIEB	MACON TRAILER PARK	4056	0	840518	8406	1	1+ 1			
100649	BIEB	PINE ACRES MOBILE HO	4051	0	840516	8406	1	1+ 1			
400871	BROOKS	SHADY ACRES SUBDIVIS	4071	1	840605	8406	1	< 2			
400880	BROOKS	TROUPVILLE MOBILE ES	4086	1	840605	8406	1	< 3			
801483	BUTTS	GEORGIA DIAGNOSTIC	4087	3	840607	8406	4	< 1			
801483	BUTTS	GEORGIA DIAGNOSTIC	4088	2	840607	8406	4	< 2			
801483	BUTTS	GEORGIA DIAGNOSTIC	4089	1	840607	8406	4	< 1			
801483	BUTTS	GEORGIA DIAGNOSTIC	4090	4	840607	8406	4	< 1			
001532	CAMDEN	KINGSLAND	4094	0	840614	8406	1	< 2			
024247	CAMDEN	NAVAL BASE SUPPORT	4041	1	840517	8406	4	< 4			
527348	CHATHAM	CHATHAM CO PARKWAY	4070	1	840511	8406	4	< 2			
502123	CHATHAM	COTTONVALE ESTATES	4066	1	840515	8406	1	< 2			
502132	CHATHAM	DYCHES W.W.< MOBILE	4061	1	840515	8406	1	< 2			
514388	CHATHAM	GOERGETOWN SD	4109	0	840620	8406	1	< 2			
522963	CHATHAM	GROVE POINT MOBILE E	4067	1	840515	8406	1	< 2			
502257	CHATHAM	LARCHMONT	4085	1	840606	8406	1	< 2			
502345	CHATHAM	REGENCY MOBILE HOME	4076	1	840606	8406	1	< 2			
502381	CHATHAM	SKIDAWAY MOBILE ESTA	4052	2	840515	8406	1	< 2			
502406	CHATHAM	SOUTHSIDE MOBILE EST	4054	1	840515	8406	1	< 2			
502080	CHATHAM	SOUTHERN FOUNTAIN M.	4082	1	840605	8406	1	< 2			
504144	CHATHAM	WHITEFIELD MOBILE HO	4048	1	840515	8406	1	< 2			
03146	CLINCH	HOMERVILLE	4106	0	840614	8406	1	< 3			
03317	COFFEE	AMEROGEE	4065	1	840510	8406	1	< 3			
04158	DECATUR	ATTAPULGUS	4092	2	840607	8406	3	14+ 2	11.2	< 1.0	3+ 1
04682	EARLY	JAKIN	4059	0	840417	8406	1	< 3			
16501	FRANKLIN	BRITTANY HARBOR WEST	4080	0	840502	8406	3	4+ 2	1.8		
06248	GLYNN	YOUTH BOYS ESTATE IN	4105	0	840619	8406	1	< 2			
06491	GRADY	CAIRO	4055	7	840510	8406	1	< 2			
27357	HALL	BANKS MOUNTAIN SD	4068	1	840510	8406	4	< 1			
11038	HALL	LANIER VALLEY SUBDIV	4057	0	840508	8406	1	< 1			
16124	HALL	LAKE LANIER MOBILE H	4060	0	840508	8406	1	< 2			
27366	HALL	SINGLETON MHP	4098	1	840615	8406	4	2+ 1			
23106	HANCOCK	WOODLAND VALLEY SD	4063	0	840508	8406	1	< 3			
07814	JACKSON	NICHOLSON WATER ASSO	4084	0	840504	8406	3	4+ 1	0.4		
26885	LEE	MORGAN ESTATES SD	4045	1	840511	8406	4	< 2			
20884	LIBERTY	FLOYD'S MOBILE HOME	4095	2	840613	8406	1	< 2			
27070	LIBERTY	GUM BRANCH MHP	4042	0	840505	8406	4	< 2			
08972	LOWNDES	GREEN VALLEY MOBILE	4050	0	840522	8406	1	< 2			
00064	LOWNDES	GREENERIAR ESTATES	4077	1	840418	8406	1	< 3			
4949	LOWNDES	PARKER MATHIS SUBDIV	4064	1	840418	8406	1	2+ 2			
24048	LOWNDES	REMERTON,TOWN OF	4075	1	840419	8406	1	2+ 2			
9106	LOWNDES	STALVEY TRAILER PARK	4043	4	840524	8406	4	< 2			
2712	MITCHELL	HINSONTON WATER ASSO	4104	1	840612	8406	1	2+ 2			
2745	OCCONEE	BROCKWOOD ESTATES	4044	3	840418	8406	4	< 2			
4561	PUTNAM	SUGAR CREEK SD	4046	2	840516	8406	4	< 3			

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RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT DT: 8406 ... JUNE COMPLETE

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#	COUNTY	WATER SUPPLY	W	WELL #	COLL DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
711335	STEEHENS	TOCCOA	4103	0	840615	8406	1	< 1			
611924	THOMAS	TOWN OF OCHLOCKNEE	4093	2	840605	8406	1	< 3			
617241	THOMAS	ROSE CITY	4072	1	840524	8406	3	2+- 2			
711994	TIFT	OMEGA	4058	1	840522	8406	1	< 3			
717743	TIFT	PINE HILL MOBILE HOM	4107	2	840618	8406	1	20+- 2	24.8	< 1.0	< 2
712128	TIFT	SELPH TRAILER PARK	4091	1	840531	8406	1	< 2			
722036	TIFT	TOWN : COUNTRY MOBIL	4096	1	840531	8406	1	< 2			
712875	WALTON	MONROE	4102	0	840614	8406	1	< 1			
913146	WARREN	TOWN OF CAMAK	4069	3	840524	8406	4	2+- 1			
913146	WARREN	TOWN OF CAMAK	4099	0	840524	8406	4	29+- 2	1.4	< 1.0	51+- 4
913146	WARREN	TOWN OF CAMAK	4100	2	840524	8406	4	5+- 1	0.6		
913146	WARREN	TOWN OF CAMAK	4101	1	840524	8406	4	119+- 4	3	< 1.0	98+- 8
113338	WAYNE	WAYNE CORRECTIONAL I	4097	1	840612	8406	1	< 1			
613528	WILCOX	ABBEVILLE	4053	0	840517	8406	1	< 2			
613537	WILCOX	PINEVIEW	4079	0	840517	8406	1	< 2			
613555	WILCOX	ROCHELLE	4073	0	840504	8406	1	< 2			
913680	WORTH	POULAN	4081	1	840501	8406	1	3+- 2	1.9		
925150	WORTH	PINE NEEDLE LANE TRA	4108	1	840612	8406	1	< 2			

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RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT DT: 8407 ... JULY COMPLETE

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#	COUNTY	WATER SUPPLY	W	WELL #	COLL DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
000475	FERRIEN	ENIGMA	4147	2	840626	8407	3	7+- 3	8.1	< 1.0	
400817	BROOKS	BARWICK	4119	0	840618	8407	1	< 2			
534482	BULLOCH	NELSON LAKE WATER SYS	4118	0	840620	8407	1	< 2			
201703	CARROLL	VILLA RICA	4165	0	840725	8407	1	< 1			
502178	CHATHAM	GARDEN ACRES TRAILER	4160	0	840717	8407	1	< 2			
501926	CHATHAM	POOLER	4115	0	840620	8407	1	< 2			
802902	CHEROKEE	CANTON TEXTILE MILLS	4164	0	840724	8407	1	< 1			
324912	CLARKE	NOXWOOD VILLAGE MH	4154	2	840630	8407	4	< 2			
403344	COFFEE	NICHOLLS	4133	0	840629	8407	1	2+- 2			
414081	COFFEE	TOWN : COUNTRY TRAIL	4143	0	840718	8407	1	< 4			
503737	COUMELA	MARTINEZ WATER ASSOC	4162	0	840718	8407	1	< 1			
806278	COVETA	QUAIL HOLLOW PARK	4114	3	840626	8407	4	3+- 1			
904023	CRAWFORD	ROBERTA	4161	0	840719	8407	1	< 2			
204124	DAWSON	DAWSONVILLE	4148	0	840717	8407	1	< 2			
323852	DECATUR	MOBILE CITY MHP	4150	1	840405	8407	1	< 2			
804630	DOUGLAS	DOUGLAS COUNTY WATER	4159	0	840715	8407	1	< 2			
816708	FORSYTH	BAREFFY HILLS S/D	4152	0	840717	8407	1	< 1			
805733	FORSYTH	BEAVER RUIN S/D	4156	0	821210	8407	1	< 2			
005934	FULTON	ATLANTA	4163	0	840724	8407	1	< 2			
206153	GLASCOCK	GIBSON	4158	1	840712	8407	1	< 2			
506586	GREENE	WHITE PLAINS	4141	2	840711	8407	4	42+- 5	0.9	< 1.0	50+- 4
127448	HARLSON	PINE MEADOWS SD	4140	1	840613	8407	4	< 2			
507546	HOUSTON	HOUSTON COUNTY WATER	4110	1	840625	8407	1	4+- 1	0.3		
507555	HOUSTON	HOUSTON COUNTY WATER	4112	1	840619	8407	1	< 2			
507546	HOUSTON	HOUSTON COUNTY WATER	4123	2	840625	8407	1	< 1			
517387	HOUSTON	HOUSTON CO. SYSTEM, FE	4111	0	840620	8407	1	4+- 1	2.7		
507564	HOUSTON	HOUSTON COUNTY WATER	4113	1	840619	8407	1	< 3			
507573	HOUSTON	HOUSTON COUNTY WATER	4117	1	840619	8407	1	< 3			
14616	LAURENS	OLD SOUTH ESTATES	4166	0	840725	8407	1	< 2			
33074	LIBERTY	FLEMING ESTATES MOET	4155	0	821010	8407	1	< 2			
25558	LONG	AARON'S MHP	4120	0	840627	8407	1	< 2			
25521	LONG	HARVEY COLLIER MHP	4122	0	840627	8407	1	< 2			
25549	LONG	HORSE CREEK TP	4124	0	840627	8407	1	< 2			
08802	LOWNDES	HAFIRA	4121	1	840619	8407	1	< 2			
22635	LOWNDES	LOCH LAUREL MHP	4126	1	840618	8407	4	< 2			
25661	LOWNDES	PECAN GROVE MHP	4144	1	840507	8407	1	2+- 1			
09755	MONROE	CULLODEN	4142	2	840710	8407	4	< 2			
33744	OCONEE	ELDER HEIGHTS SUBDIV	4129	2	840711	8407	4	< 1			
10328	PEACH	EYRON	4116	0	840615	8407	1	< 1			
18189	PEACH	HAYES MHP	4125	1	840703	8407	4	4+- 1	2.6		
27382	PEACH	MOBILE MANOR EST	4128	1	840624	8407	4	1+- 1			
25851	TELFAIR	MILAN #3	4134	0	840703	8407	1	2+- 2			
11762	TELFAIR	MILAN	4137	0	840703	8407	1	2+- 1			
25860	TELFAIR	MILAN #2	4139	2	840710	8407	1	2+- 2			
3576	THOMAS	OAKLAND SUBDIVISION	4130	3	840628	8407	4	1+- 1			
3576	THOMAS	OAKLAND SUBDIVISION	4151	1	840628	8407	1	< 3			
6184	TIFT	PEEBLE BROOK MEADOWS	4135	1	840618	8407	1	< 2			
6251	TOOMBS	CATOGS TRAILER PARK	4146	0	840718	8407	1	< 2			
3159	TWIGGS	KAOLIN HEIGHTS SUBDI	4157	0	830223	8407	1	< 2			
8458	WAYNE	ARROWHEAD VILLAGE TR	4149	0	840716	8407	1	< 2			
4434	WAYNE	BON AIR APARTMENT	4153	0	840718	8407	1	< 2			

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RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT DT: 8407 ... JULY COMPLETE

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	COUNTY	WATER SUPPLY	W	WELL #	COLL DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
124258	WAYNE	DRIFTWOOD MOBILE HOM	4132	0	840628	8407	1	< 2			
113277	WAYNE	ODUM	4138	0	840628	8407	1	< 2			
124416	WAYNE	REST AWHILE NURSING	4131	0	840628	8407	1	< 2			
113286	WAYNE	SCREVEN	4145	0	840716	8407	1	< 2			
113393	WHITE	HELEN	4127	4	840709	8407	4	5+- 2	1.9		
113671	WORTH	ISABELLA WATER SYSTE	4136	0	840614	8407	1	< 2			

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RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT DT: 8408 ... AUGUST INCOMPLETE

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	COUNTY	WATER SUPPLY	W	WELL #	COLL DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
25278	ADAMS	LAKE TARA MHP	4272	1	840328	8408	5	< 3			
17114	ADAMS	THE VILLAGE MHP	4223	0	840807	8408	1	2+	2		
000292	BARTOW	BARTOW COUNTY WATER	4200	0	820713	8408	-1	2+	1		
000466	BERRIEN	ALAPAH, CITY OF	4197	0	820222	8408	3	5+	2		
001262	BERRIEN	BENNETT'S #2 MHP	4202	0	820129	8408	-1	2+	1		
000475	BERRIEN	ENIGMA	4250	2	840326	8408	2	3+	2		
15120	ETEB	AVONDALE MOBILE HOME	4252	2	840220	8408	5	3+	1		
000667	ETEB	BRECKENRIDGE SOUTH M	4236	0	840803	8408	1	< 2			
14288	ETEB	CALLE VINAS SUBDIVIS	4229	1	840731	8408	1	< 1			
13920	ETEB	HAWAIIAN VILLAGE	4220	0	840815	8408	1	2+	2		
01560	ETEB	MACON HEALTH CARE C	4228	1	840731	8408	1	1+	1		
114297	ETEB	MOBILE WORLD FORES	4217	0	840815	8408	1	3+	2		
000658	ETEB	SHELTERING PINES MOE	4226	1	840803	8408	1	< 2			
524276	BRYAN	B : E WATER WORKS	4205	0	811214	8408	-1	< 2			
18251	BRYAN	BLACK CREEK - WEST	4237	0	840815	8408	1	< 2			
000984	BRYAN	FORT MCALLISTER ESTIA	4179	0	840629	8408	1	< 2			
001984	BRYAN	GARDNER ESTATES	4231	0	840815	8408	1	< 2			
000993	BRYAN	LAKE LORRAINE S/D	4218	0	840807	8408	1	< 2			
001160	BULLOCH	CLARK'S MOBILE HOME	4206	0	821201	8408	-1	< 2			
23368	BULLOCH	COUNTRY C. HILLS-PIN	4267	1	840104	8408	5	< 3			
001063	BULLOCH	STATESBORO	4251	7	821116	8408	5	< 3			
23183	CAMDEN	MISSION TRACE SD	4196	0	810415	8408	6	< 3			
001697	CARROLL	TEMPLE	4175	0	840726	8408	1	< 2			
001776	CARROLL	TWIN OAKS MOBILE HOM	4234	0	840824	8408	1	1+	1		
23801	CATOCUSA	HOUSTON VALLEY WATER	4279	0	840109	8408	5	< 3			
15778	CHATHAM	COMMODORE POINT	4230	0	840808	8408	1	< 2			
02150	CHATHAM	ESTILL HAMMOCK ESTAT	4169	0	840719	8408	1	< 2			
22565	CHATHAM	GLEN OF ROBIN HOOD S	4177	1	840725	8408	1	< 2			
02196	CHATHAM	GRAYS SUBDIVISION	4238	0	840815	8408	1	< 2			
02035	CHATHAM	GROVE HILL SUBDIVISI	4239	0	840802	8408	1	2+	2		
22112	CHATHAM	MATHEWS MOBILE HOME	4240	0	840807	8408	1	< 3			
14003	CHATHAM	MORGAN MOBILE HOME P	4227	0	840802	8408	1	< 2			
22275	CHATHAM	OGEECHEE FARMS	4284	2	840131	8408	5	< 2			
23227	CHATHAM	PINE FOREST SUBDIVIS	4167	0	840717	8408	1	< 2			
23390	CHATHAM	PINEWOOD MOBILE HOME	4168	0	840717	8408	1	< 2			
24075	CHATHAM	SAVANNAH, COFFEE ELU	4253	26	810825	8408	2	< 3			
2954	CHATHAM	SHADY ACRES MOBILE H	4198	0	810812	8408	1	< 3			
2442	CHATHAM	TALAH LAKE ESTATES	4184	0	840717	8408	1	< 3			
2814	CHEROKEE	CHEROKEE COUNTY WATE	4282	0	831121	8408	5	< 2			
3112	CLAYTON	RIVERDALE	4182	0	840724	8408	1	< 2			
3649	COLUMBIA	GROVETOWN	4271	15	821109	8408	5				
3743	COOK	ADEL	4185	0	840726	8408	1	< 4			
6599	COWETA	SWEETRIAR MHP	4199	0	820617	8408	-1	< 2			
5185	CRISP	CEDAR LAKES ESTATES	4274	1	830809	8408	5	< 2			
5194	CRISP	DOGWOOD HILL SD	4307	1	831108	8408	5				
3329	CRISP	MEADOW PARK S/D	4287	2	831108	8408	5	< 2			
5018	CRISP	OMAR HEIGHTS	4288	1	831108	8408	5	< 3			
1124	DAWSON	DAWSONVILLE	4254	2	831208	8408	5	4+	2		
1124	DAWSON	DAWSONVILLE	4262	0	830310	8408	5	2+	1		
1124	DAWSON	DAWSONVILLE	4293	1	831208	8408	5				
1225	DEKALB	DEKALB COUNTY WATER	4173	0	840724	8408	1	< 1			

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714155	DOUGHERTY	BIG M TRAILER PARK	4225	1	840725	8408	1	< 2			
704439	DOUGHERTY	CARVER SUBDIVISION	4178	1	840725	8408	1	< 3			
125848	EFFINGHAM	FOXHALL NORTH	4248	1	840327	8408	5	< 2			
107621	EFFINGHAM	HODGESVILLE MOBILE H	4192	0	811013	8408	6	< 2			
104777	EFFINGHAM	RINCON	4216	2	840808	8408	1	< 2			
304957	EMANUEL	GARFIELD	4290	2	831103	8408	5	< 3			
304993	EMANUEL	SWAINSBORO	4300	9	840202	8408	5	< 2			
505216	FAYETTE	DIX LEE ON ESTATES	4257	6	831229	8408	5	< 2			
508540	FAYETTE	FERNWOOD MOBILE HOME	4281	1	831229	8408	5	< 2			
324400	FORSYTH	KINGS HARBOR WATER S	4292	0	830913	8408	5	< 2			
305645	FORSYTH	LADY WATER CO	4264	0	830805	8408	5	1+- 1			
326874	FORSYTH	SUNDOWN S/D	4190	0	811029	8408	5	3+- 1			
305776	FRANKLIN	CANON	4258	2	840305	8408	5	< 2			
006007	FULTON	PALMETTO	4176	0	840724	8408	1	< 2			
206162	GLASCOCK	MITCHELL	4222	0	840809	8408	1	< 1			
306293	GLYNN	NEW HOPE PLANTATION	4195	2	821001	8408	1	2+- 2			
309952	GLYNN	OAK ACRES SD	4174	0	840731	8408	1	< 4			
316548	GLYNN	WINDWARD ACRES SD	4207	0	811019	8408	-1	< 3			
527338	GREENE	INDIAN HILLS ESTATES	4214	1	840723	8408	4	11+- 2			
506586	GREENE	WHITE PLAINS	4186	3	840802	8408	4	8+- 2	1.5	1.3	
706617	GWINNETT	EURFORD	4170	0	840725	8408	1	< 1			
306809	HAFERSHAM	MOUNT AIRY	4191	0	820518	8408	4	< 1			
016036	HALL	MARLETTE HEIGHTS M/H	4211	0	840808	8408	4	< 2			
307058	HALL	SHADY GROVE TRAILER	4304	3	831107	8408	5	< 1			
125014	HANCOCK	SCENIC SHORES SD	4273	2	840322	8408	5				
125014	HANCOCK	SCENIC SHORES SD	4298	4	840322	8408	5				
125014	HANCOCK	SCENIC SHORES SD	4303	5	840322	8408	5				
123106	HANCOCK	WOODLAND VALLEY SD	4269	0	830329	8408	5	4+- 2			
22532	HARRIS	HARRIS COUNTY WATER	4291	0	840127	8408	5	< 1			
116134	HART	BOWERSVILLE, CITY	4261	1	840109	8408	5	2+- 2			
07528	HOUSTON	CENTERVILLE	4221	2	840815	8408	1	< 1			
12477	HOUSTON	PINEWOOD APTS. : MHP	4215	0	840808	8408	1	2+- 1			
16917	JACKSON	TOLBERT MHP	4212	3	840814	8408	4	3+- 1			
23482	JASPER	ALCOVY SHORES SD	4268	0	830331	8408	2	9+- 2			
07951	JEFFERSON	LOUISVILLE	4295	6	840116	8408	5	< 1			
08104	JONES	GRAY	4260	6	840313	8408	2	4+- 2			
08104	JONES	GRAY	4283	2	840313	8408	2	< 2			
08104	JONES	GRAY	4285	5	840313	8408	2	< 3			
08104	JONES	GRAY	4286	4	840313	8408	2				
08104	JONES	GRAY	4308	1	840313	8408	2				
08223	LANIER	LAKE LAND	4276	2	831215	8408	5	2+- 2			
08275	LAURENS	EAST DUBLIN	4203	3	821007	8408	5	< 3			
5886	LAURENS	LAURENS WATER CO., I	4233	0	840808	8408	1	< 2			
14652	LAURENS	WARNOCKS TRAILER PA	4183	0	840725	8408	1	< 3			
3992	LEE	GLENDALE SD	4263	1	840110	8408	5	< 3			
7247	LIBERTY	OAK HILL ESTATES	4232	0	840816	8408	4	< 2			
6095	LIBERTY	OGDEN TP #2	4278	2	830602	8408	5				
5092	LIBERTY	OGDEN TP	4297	1	830602	8408	5	< 3			
5149	LINCOLN	REED POULTRY	4213	1	840809	8408	4	< 1			
7471	LONG	BOATRIGHTS TRAILER P	4201	0	821214	8408	1	< 3			
5026	LOWNDES	ASHURST SD	4301	1	840315	8408	2	< 3			

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208963	LOWNDES	FOXBOROUGH SUBDIVISI	4296	2	840326	8408	5	< 3			
225254	LOWNDES	HIDDEN VALLEY SD	4302	1	840306	8408	2	< 2			
525820	MADISON	JUBILEE PARTNERS #1	4280	1	840308	8408	5				
525820	MADISON	JUBILEE PARTNERS #1	4306	2	840308	8408	5	< 2			
876543	MCINTOSH	EULONIA COMMUNITY	4210	1	840814	8408	4	< 3			
809533	MCINTOSH	SAPELO GARDENS	4241	0	840814	8408	1	< 3			
819693	MCINTOSH	YOUNGS ISLAND WATER	4246	0	840814	8408	1	< 2			
909576	MERIWETHER	GREENVILLE	4208	0	811130	8408	-1	8+- 2			
218618	MONROE	DAVIS MOBILE HOME PK	4193	0	841208	8408	3	62+- 4		1.5	66+- 5
218618	MONROE	DAVIS MOBILE HOME PK	4194	0	830210	8408	3	41+- 4		< 1.0	
309659	MONTGOMERY	TARRYTOWN	4294	2	831116	8408	5	< 3			
721879	NEWTON	COUNTRY ACRES MOBILE	4305	0	831130	8408	5	2+- 2			
716848	NEWTON	LOOP 81 MOBILE HOME	4299	0	840316	8408	2	2+- 2			
710123	NEWTON	BIEB MFG. CO.	4245	0	840810	8408	1	< 2			
734953	NEWTON	SPRING VALLEY SUBDIV	4277	0	840316	8408	5				
210389	PICKENS	BIG CANOE SUBDIVISIO	4172	3	840724	8408	4	1+- 1			
210361	PICKENS	PICKENS COUNTY WATER	4270	1	840315	8408	5				
722024	PUTNAM	PINE FOREST SUBDIVIS	4209	3	820107	8408	6	5+- 2			
722024	PUTNAM	PINE FOREST SUBDIVIS	4224	0	840726	8408	1	2+- 1			
110729	RICHMOND	AUGUSTA	4242	0	840810	8408	1	< 2			
110765	RICHMOND	RICHMOND COUNTY WATE	4255	105	831219	8408	5	< 2			
110765	RICHMOND	RICHMOND COUNTY WATE	4289	106	831219	8408	5	< 2			
210993	ROCKDALE	MILSTEAD	4243	0	840810	8408	1	< 2			
311063	SCHLEY	ELLAVILLE	4189	0	821027	8408	3	4+- 1	1.1		
420601	SCREVEN	BRINSONS TRAILER PAR	4244	0	840801	8408	1	< 3			
421537	SCREVEN	HUCK CREEK ACRES M.H	4235	0	840801	8408	1	< 1			
511277	SPALDING	CARLISLE SD	4265	0	831229	8408	5	< 2			
511310	SPALDING	SOUTHAMPTON MHP	4188	0	831229	8408	5	3+- 1			
711399	STEPHENS	SHOREWOOD EST. : CAM	4249	0	830928	8408	5	16+- 3			
24425	SUMTER	BRIAR PATCH MOBILE H	4171	0	840730	8408	1	< 1			
21256	SUMTER	SUMTER CO. CORRECTIO	4259	2	840106	8408	5	< 2			
26292	THOMAS	NEWARK WS	4256	1	840119	8408	5	< 2			
26760	THOMAS	RIVERWOOD SD	4275	1	840322	8408	5				
20753	THOMAS	TOWN : COUNTRY ESTAT	4181	1	840507	8408	1	6+- 2	2.0	< 1.0	
21665	THOMAS	TWIN ACRES SUBDIVISI	4180	1	840717	8408	1	< 3			
21936	TIFT	OAK RIDGE TRAILER PA	4266	1	831206	8408	5	83+- 6			
12283	TREUTLEN	SOPERTON	4219	0	840810	8408	1	2+- 2			
25148	WAYNE	PINE GROVE MHP	4204	0	820805	8408	-1	< 3			
13436	WHITE	SKYLAKE WATER SYSTEM	4310	4	831230	8408	5				
13629	WILKINSON	IRWINTON WATER WORKS	4247	0	830729	8408	2	4+- 1			
13656	WILKINSON	TOOMSBORO	4309	3	830831	8408	5				
4187		COWETA CO	4187	0	840514	8408	-1	1+- 1			

TYPE -1,0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
 COLLECT DATE TYPES -1,0,2,5 = COMPOSITE DATE OR END COLLECTION DATE



Table 19

Exposure Rates at Nuclear Facilities  
Measured with TLD's

SS BAY SUBMARINE BASE ... 840403-840808: 127 DAYS

TLD#	MR	MICRR/HR	MR/YR
2.0 (+-)	12.9 2.4	4.2 0.8	37.0 6.9
3.0 (+-)	14.3 2.4	4.7 0.8	41.2 6.9
6.0 (+-)	15.8 3.3	5.2 1.1	45.4 9.5
7.0 (+-)	13.4 2.2	4.4 0.7	38.6 6.4
8.0 (+-)	14.0 2.5	4.6 0.8	40.1 7.1
9.0 (+-)	11.8 2.3	3.9 0.8	33.9 6.7
10.0 (+-)	14.7 3.2	4.8 1.0	42.3 9.1
12.0 (+-)	18.8 3.6	6.2 1.2	53.9 10.4
13.0 (+-)	12.9 3.2	4.2 1.1	37.1 9.2
14.0 (+-)	13.4 3.3	4.4 1.1	38.4 9.5
15.0 (+-)	16.1 3.9	5.3 1.3	46.2 11.2
20.0 (+-)	15.5 3.1	5.1 1.0	44.4 8.8
NET. AVG.: (+-)	14.5 3.7	4.7 1.2	41.5 10.8

E BACKGROUND KINGS BAY ... 840403-840808: 127 DAYS

TLD#	MR	MICRR/HR	MR/YR
22.0 (+-)	17.8 3.0	5.9 1.0	51.3 8.6
23.0 (+-)	16.3 2.5	5.4 0.8	47.0 7.2
24.0 (+-)	16.5 3.0	5.4 1.0	47.3 8.7
25.0 (+-)	17.1 3.4	5.6 1.1	49.2 9.8
26.0 (+-)	15.0 3.4	4.9 1.1	43.2 9.6
27.0 (+-)	14.1 2.7	4.6 0.9	40.5 7.8
28.0 (+-)	15.3 3.1	5.0 1.0	44.0 8.9
NET. AVG.: (+-)	16.0 2.6	5.3 0.8	46.1 7.4



GEORGIA INSTITUTE OF TECHNOLOGY  
OFFICE OF INTERDISCIPLINARY PROGRAMS  
205 OLD CIVIL ENGINEERING BUILDING  
ATLANTA, GEORGIA 30332

ENVIRONMENTAL RESOURCES CENTER  
(404) 894-2375

BIOENGINEERING CENTER  
(404) 894-2375

DATE: October 15, 1984

TO: James Hardeman, Program Manager  
Environmental Radiation Program  
Environmental Protection Division, DNR

FROM: Bernd Kahn, Director  
Environmental Resources Center

SUBJECT: Monthly Report of Activities for the State by the Environmental  
Radiation Laboratory, September, 1984

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The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental radionuclide monitoring at nuclear facilities by DNR staff	Table 1-18
Other environmental radionuclide monitoring by DNR staff	Table 19
Radioactivity monitoring by DNR staff	Table 20-21
Monitoring by DNR staff of Community Water Systems	Table 22
Environmental radiation monitoring at nuclear facilities by DNR staff	Table 23

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity that may be attributed to the facility:

Tables 16 - 18 -- H-3 in milk, rainwater, surface water and soil at the Savannah River Plant.

All other radionuclides in Tables 1-18 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables.

Bags of silica gel, placed in the environment in Georgia at the Savannah River Plant for a 3-month period collected water vapor with elevated H-3 levels (see Table 19).

Smears taken by DHR staff at Georgia Tech showed detectable Co-60 in two smears of four, and Zn-65 in one of them (Table 20). Liquid scintillation analysis is in process (Table 21).

Radioactivity results for community water supplies, compiled in Table 22, include partial data for samples WS4167-4378.

Elevated radium levels were found in:

WS 4197 Alapaha

TLD measurements obtained in the vicinity of Plant Farley, Plant Hatch, Plant Sequoyah, and SRP and at background locations are reported in Table 23. Ranges of exposure were:

<u>Location</u>	<u>Near Plant</u>	<u>Background</u>
Farley	32-71 mR/yr	44-74 mR/yr
Hatch	30-57	40-76
Sequoyah	50-71	42-93
SRP	41-72	45-87

None of the values are attributed to station operation. Note that the background locations are not well matched to the nearby locations and have a higher upper value at all plants.

The types of samples and number of each that were analyzed are summarized in the following two tables.

September 1984

[illegible]

Sample Types Analyzed in Month

<u>Sample Types</u>	<u>Analyzed in Month</u>
Community Water Supplies	122
Nuclear facilities	418
DHR surveys	10
DNR surveys	7
Total	<u>537</u>

Table 1

Radioactivity Levels in Air Samples from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m<sup>3</sup></u>	<u>Radionuclide concen- tration, pCi/m<sup>3</sup></u>	
				<u>I-131</u>	<u>Gross beta</u>
B1123*	Cartridge Paper filter	Substation	6382	<0.003 -----	----- 0.006
B1124*	Cartridge Paper filter	Dead River Rd.	3071	<0.004 -----	----- 0.011
B1125*	Cartridge Paper filter	Plant Hatch	1865	<0.009 -----	----- 0.014

- 
- Notes: 1. Samples were collected on August 26, 1984, after 44-day sampling.  
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 2

Radioactivity Levels in Water Samples from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131 pCi/l</u>
B1126*	Sta # 170	$3 \pm 2$	$10 \pm 2$	< 300	< 4
B1127*	Sta # 172	< 1	$3 \pm 2$	< 300	< 2
B1139	TLD # 22, surface	< 2	$3 \pm 3$	In process	----
B1140	TLD # 48, surface	< 2	$4 \pm 2$		----
B1141	TLD # 18, ground	< 3	$4 \pm 2$		----
B1142	TLD # 19, ground	$4 \pm 2$	$6 \pm 2$		----
B1143	TLD # 22, ground	$5 \pm 2$	$4 \pm 2$		----
B1144	TLD # 28, ground	$6 \pm 2$	$3 \pm 2$		----
B1145	TLD # 44, ground	$6 \pm 3$	$2 \pm 2$		----

- 
- Notes: 1. Samples B 1126-1127 were collected July 25- August 29, 1984 by Georgia Power Company staff; samples B1139-1145 were collected on September 25, 1984.
2. I-131 was calculated as of the final day of the collection period.
3. No man-made photon-emitting radionuclides were detected in samples B1126 and 1127. (Cs-137 <20 pCi/l).



Table 3

Radioactivity Levels in Milk Samples from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B1128*	GSP	< 6	1.7	200 $\pm$ 200	< 1
B1129*	Johnson Bros.	< 10	1.5	< 200	< 1
B1130*	Williamson	< 6	1.7	< 200	< 2

- 
- Notes: 1. Samples were collected on August 27, 1984, by Georgia Power Co. staff.  
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 4

Radioactivity Levels in Grass Samples from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>	
			<u>Cs-137</u>	<u>Be-7</u>
B1131*	Sta. 5	0.54	170	6,800
B1132*	Sta. 21	0.41	240	6,300
B1133	TLD # 16	0.24	<70	<500
B1134	TLD # 20	0.36	<70	2,600
B1135	TLD # 22	0.46	100	3,700
B1136	TLD # 25	0.29	1,600	1,400
B1137	TLD # 28	0.55	<70	2,700
B1138	TLD # 45	0.47	<70	4,900

- 
- Notes: 1. Samples B1131 -1132 were collected on September 2, 1984, by Georgia Power Co. staff; samples B1133-1138 were collected on September 25, 1984.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 5

Radioactivity Levels in Water Sample from  
the Environment in Georgia of the Dawson Forest

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>
D 260	Check-in station, ground	< 2	< 3

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Notes: 1. Sample was collected on September 11, 1984.  
2. No man-made photon-emitting radionuclides were  
detected. (Cs-137 <20 pCi/l).

Table 6

Radioactivity Levels in Air Samples from the  
the Environment in Georgia of the Farley Nuclear Plant .

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m3</u>	<u>Radionuclide concen- tration, pCi/m3</u>	
				<u>I-131</u>	<u>Gross beta</u>
F809*	Cartridge	Great Southern Paper	4718	<0.004	-----
	Paper filter			-----	0.003
F810*	Cartridge	Blakely water Tower	3848	<0.004	-----
	Paper filter			-----	0.006

---

Notes: 1. Samples were collected on August 31, after 31-day sampling.  
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 7

Radioactivity Levels in Water Samples from the Environment  
in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F811	Chattahoochee River Great Southern Paper	< 2	< 2	< 200	-----
F812*	Chattahoochee River WRI- M5-0884	< 2	2 $\pm$ 2	< 200	< 2
F813*	Chattahoochee River WRB-M5-0884	< 2	4 $\pm$ 2	< 200	< 2
F815	TLD # 1, ground	< 2	2 $\pm$ 2	< 200	-----
F816	TLD # 12, ground	< 2	4 $\pm$ 2	< 200	-----
F817	TLD # 20, ground	< 2	4 $\pm$ 2	< 200	-----
F818	TLD # 12, surface	< 1	2 $\pm$ 2	< 200	-----
F819	TLD # 20, surface	< 2	6 $\pm$ 2	< 200	-----

- 
- Notes: 1. Sample F811 was collected on August 31, 1984; samples F812-813 were collected during August, 1984, by Alabama Power Company staff; samples F815 -819 were collected on September 18, 1984.
2. I-131 was calculated as of the final day of the collection period.
3. No man-made photon-emitting radonuclides were detected in samples F811-813 (Cs-137 <20 pCi/l).

Table 8

Radioactivity Levels in Milk Sample from  
the Environment in Georgia of the Farley Nuclear Plant

<u>Sample #</u>	<u>Location</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F814*	MB-1110-M5 091085	9	1.7	<200	< 2

- 
- Notes: 1. Sample was collected on September 10, 1984, by Alabama Power Company staff.  
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 9

Radioactivity Levels in Grass Samples from the  
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration</u>	
			<u>Cs-137</u>	<u>Be-7</u>
F820	TLD #1	0.29	< 70	<1,600
F821	TLD #12	0.34	80	6,000
F822	TLD #16	0.53	< 70	4,400
F823	TLD #20	0.49	< 70	<700

- 
- Notes: 1. Samples were collected on September 18, 1984.  
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 10

Radioactivity Levels in Grass Samples from the  
Environment in Georgia of the Sequoyah Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>	
			<u>Cs-137</u>	<u>Be-7</u>
SQL33	TLD # 3	0.50	< 70	2,200
SQL34	TLD # 10	0.47	< 70	5,900

- 
- Notes: 1. Samples were collected on September 7, 1984.  
2. No other man-made photon-emitting radionuclides were detected.  
Be-7 is formed in nature.



Table 11

Radioactivity Levels in Ground Water Samples from the  
Environment in Georgia of the Sequoyah Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>
SQL35	TLD # 3	< 2	< 3	< 300
SQL36	TLD # 10	< 2	2 $\pm$ 2	< 300

---

Note: Samples were collected on September 7, 1984.

Table 12

Radioactivity Levels in Water Samples from  
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Radionuclide concentration, pCi/l</u>	
	<u>Cs-137</u>	<u>Be-7</u>
SR 1592 and 1595	< 3	85

- 
- Notes: 1. Other results are in the report for August, 1984, Table 12.  
 2. Gammay-ray spectral analysis was performed on combined evaporated samples (0.4 l each) because gross beta particle activity was above 5 pCi/l. No other photon-emitting radionuclides were detected.

Table 13

Radioactivity Levels in Sediment Samples from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>			
			<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
SR 1651	18A	0.64	530	16,400	1,800	1,600
SR 1652	18B	0.78	300	10,600	500	400
SR 1653	19A	0.81	82	8,500	700	400
SR 1654	19B	0.66	470	17,300	1,300	900
SR 1655	20A	0.63	460	16,800	1,100	1,000
SR 1656	20B	0.62	530	17,300	1,500	1,000
SR 1657	21A	0.42	76	6,000	1,700	1,100
SR 1658	21B	0.62	340	14,000	1,300	1,300

- 
- Notes: 1. Samples SR 1617-1658 were collected August 20-23, 1984; results for other samples are given in report for August, 1984, Table 13.  
2. No other man-made photon-emitting radionuclides were detected. detected.

Table 14

Radioactivity Levels in Air Samples from the  
Environment in Georgia of the Savannah River Plant

Sample No.	Sample type	Location	Volume, m3	Radionuclide concen- tration, pCi/m3			Inches Rainfall
				I-131	Gross alpha    beta		
SR 1659	Cartridge Paper filter	Augusta	3010	<0.006 -----	----- <0.001	----- 0.003	3.5
SR 1660	Cartridge Paper filter	Girard	3023	<0.006 -----	----- <0.001	----- 0.003	no data
SR 1661	Cartridge Paper filter	Simulator	3753	<0.006 -----	----- <0.001	----- 0.002	4.0
SR 1662	Cartridge Paper filter	Hargrove Rd.	3048	<0.006 -----	----- <0.001	----- 0.003	3.6
SR 1663	Cartridge Paper filter	Waynesboro	3052	<0.006 -----	----- <0.001	----- 0.002	3.6
SR 1664	Cartridge Paper filter	Ga. Welcome	1019	<0.02 -----	----- <0.001	----- 0.007	no data

- 
- Notes: 1. Samples were collected on August 27, 1984 after 32-day sampling.  
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 15

Radioactivity Levels in Grass Samples from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>H-3, pCi/l</u>	<u>Radionuclide concentration, pCi/kg</u>	
				<u>Cs-137</u>	<u>Be-7</u>
SR1665	TLD # 1	0.33	In process	45	500
SR1666	TLD # 4	0.97		<300	<3,000
SR1667	TLD # 6	0.27		<180	<2,000
SR1668	TLD # 8	0.44		<100	<1,000
SR1669	TLD # 10	0.22		<180	2,800
SR1670	TLD # 11	0.49		190	3,200
SR1671	TLD # 15	0.24		260	3,900
SR1672	TLD # 17	0.34		630	3,300
SR1673	TLD # 20	0.37		800	4,400
SR1674	TLD # 22	0.42		100	3,400
SR1675	TLD # 25	0.48		950	4,200
SR1703	Simulator	0.21		<100	<1,000
SR1704	Waynesboro	0.60		<30	2,500
SR1705	Hancock Landing	0.66		<30	2,400

- 
- Notes: 1. Samples SR1665-1675 were collected on September 5-6, 1984; samples SR 1703-1705 were collected by Georgia Power Company staff.  
2. No other man-made photon-emitting radionuclides were detected.  
Be-7 is formed in nature.

Table 16

Radioactivity Levels in Water Samples from  
The Environment in Georgia of the Savannah River Plant

Sample No.	Location	Inches Rainfall	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l	I-131, pCi/l
SR 1676	TLD #6, surface	-----	< 2	3 + 2	< 300	-----
SR 1677	TLD #10, surface	-----	< 2	4 + 2	< 300	-----
SR 1678	TLD #11, surface	-----	< 2	3 + 2	< 300	-----
SR 1679	TLD #15, surface	-----	< 2	3 + 2	1,800 ± 300	-----
SR 1680	TLD #17, surface	-----	< 2	< 3	3,000 ± 300	-----
SR 1681	TLD #20, surface	-----	3 ± 2	7 ± 2	3,800 ± 300	-----
SR 1683	TLD #4, rain	-----	-----	-----	< 300	-----
SR 1684	TLD #8, rain	-----	-----	-----	1,200 ± 300	-----
SR 1685	Savannah River, Hwy 301	-----	< 2	2 ± 2	400 ± 300	< 2
SR 1686	Augusta, rain	3.5	< 1	3 ± 2	< 300	-----
SR 1687	Ga. Welcome, rain	1.3	< 2	9 ± 2	-----	-----
SR 1688	GPC simulator, rain	5.9	2 ± 1	< 2	500 ± 300	-----
SR 1689	Hargrove Rd., rain	3.6	< 1	3 ± 2	800 ± 300	-----
SR 1690	Waynesboro, rain	3.6	< 2	2 ± 2	500 ± 300	-----
SR 1691	Girard, rain	no data	3 ± 2	12 ± 2	-----	-----
SR 1692	I & D Water Supply, Port Wentworth	-----	< 2	3 ± 2	In process	< 2
SR 1696	Savannah River R-2	-----	< 2	< 2	400 ± 400	< 2
SR 1697	Savannah River R-10	-----	< 2	2 ± 2	4,500 ± 400	< 3
SR 1698	RM 146.7	-----	< 2	3 ± 2	1,400 ± 400	-----
SR 1699	RM 150.4	-----	< 1	< 2	< 300	-----

Table 16 (cont)

Radioactivity Levels in Water Samples from  
The Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Inches Rainfall</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 1700	RM 151.2	-----	< 2	4 ± 2	< 300	-----
SR 1701	N. Augusta, raw composite	-----	< 2	2 ± 2	< 400	-----
SR 1702	Port Wentworth, raw composite	-----	< 2	2 ± 2	1,800±400	-----

- 
1. Samples SR1676-1684 were collected on September 5, 1984; samples SR1685-1691 were collected July 26 - August 27, 1984; sample SR1692 was collected September 5-11, 1984; samples SR1696-1697 were collected on September 4, 1984, by Savannah River Plant staff, samples SR1698-1702 were collected August 6 - September 11, 1984, by Georgia Power Company staff.
  2. I-131 was calculated as of the final day of the collection period.
  3. No man-made photon-emitting radionuclides were detected in samples SR1676-1681, 1685, 1692, and 1696-1702. (Cs-137 <20 pCi/l).

Table 17

Radioactivity Levels in Soil Sample from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>H-3, pCi/l</u>	<u>Radionuclide concentrations, pCi/kg</u>			
				<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
SR 1682	TLD # 4	0.69	800±400	310	17,400	1,200	1,400

- 
- Notes: 1. Sample was collected on September 6, 1984.  
2. No other man-made photon-emitting radionuclides were detected.



Table 18

Radioactivity Levels in Milk Samples from  
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137</u> <u>pCi/l</u>	<u>K,</u> <u>g/l</u>	<u>H-3,</u> <u>pCi/l</u>	<u>I-131,</u> <u>pCi/l</u>
SR 1693	Girard	< 10	1.8	< 300	< 1
SR 1694	Waynesboro	< 6	1.7	< 400	< 1
SR 1695	Gracewood	< 6	1.8	700+300	< 1

- 
- Notes: 1. Samples were collected on September 6, 1984, by Savannah River Plant staff.  
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 19  
Tritium Levels in Silica Gel Collectors

<u>Sample No.</u>	<u>Identification</u>	<u>Water vol., ml.</u>	<u>H-3, pCi/l</u>
S 2408	S-1, Vogtle simulator	0.91	8,200 $\pm$ 300
S 2409	S-2, Augusta YDC	0.93	13,600 $\pm$ 300
S 2410	S-3, Girard	0.96	9,300 $\pm$ 300
S 2411	S-4 Waynesboro	0.90	39,300 $\pm$ 300
S 2412	S-5 Hancock Landing	0.91	61,400 $\pm$ 400
S 2413	S-6 Ga. Welcome Center	0.58	18,500 $\pm$ 300
S 2414	S-7 Sample blank	1.0	-----
S 2415	S-8 Standard	1.0	7,200/ml

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Notes: 1. Bags of 220g silica gel placed in the field near Savannah River Plant, May 1-September 9, 1984 by DNR personnel; 5.0-g samples of moist silica gel were analyzed.

Table 20

Radioactivity Levels in Smears from Georgia Tech  
Research Reactor

<u>Sample No.</u>	<u>Identification</u>	<u>Radioactivity level, pCi/smear</u>			
		<u>Gross alpha</u>	<u>Gross beta</u>	<u>Co-60</u>	<u>Zn-65</u>
S 2416	# 17	< 0.2	3 $\pm$ 1	3	< 2
S 2417	# 18	< 0.2	55 $\pm$ 2	31	370
S 2418	# 19	0.4 $\pm$ 0.3	1 $\pm$ 1	<1	<2
S 2419	# 20	< 0.3	1 $\pm$ 1	<1	<2
S 2420	# 27	0.3 $\pm$ 0.3	1 $\pm$ 1	<1	<2

- 
- Notes: 1. Samples were collected on September 11, 1984 by DHR personnel.  
 2. No other photon-emitting radionuclides were detected. Samples S 2418-2420 were counted together by Ge(Li) detector.

Table 21

## Radioactivity Levels in Smears from Georgia Tech

<u>Sample No.</u>	<u>Identification</u>	<u>H-3, pCi/smear</u>	<u>C-14, pCi/smear</u>	<u>P-32, pCi/smear</u>
S 2421	# 19			
S 2422	# 21			
S 2423	# 22			
S 2424	# 23			
S 2425	# 24			
S 2426	# 25	In process		
S 2427	# 26			
S 2428	# 28			
S 2429	# 29			
S 2430	# 30			
S 2431	# 31			
S 2432	# 1			
S 2433	# 2			
S 2434	# 3			
S 2435	# 4			
S 2436	# 5			
S 2437	# 6			
S 2438	# 7			

- Notes: 1. Samples were collected on September 13, 1984 by DHR personnel.  
 2. The radionuclides listed in the headings refer to the energy windows, not necessarily to the radionuclides present.

Table 22

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT DT: 8408 ... AUGUST INCOMPLETE

... PAGE 1

#	COUNTY	WATER SUPPLY	W	WELL #	COLL DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
125278	APPLING	LAKE TARA MHP	4272	1	840328	8408	5	< 3			
117114	APPLING	THE VILLAGE MHP	4223	0	840807	8408	1	2+- 2			
800292	BARLOW	BARLOW COUNTY WATER	4200	0	820713	8408	-1	2+- 1			
000466	BERRIEN	ALABAMA, CITY OF	4197	0	820222	8408	3	5+- 2	7.6		
001262	BERRIEN	BENNETT'S #2 MHP	4202	0	820129	8408	-1	2+- 1			
000475	BERRIEN	ENIGMA	4250	2	840326	8408	2	3+- 2			
115120	BIEB	AVONDALE MOBILE HOME	4252	2	840220	8408	5	3+- 1			
100667	BIEB	ERCKENRIDGE SOUTH M	4236	0	840803	8408	1	< 2			
114288	BIEB	CALLE VINAS SUBDIVIS	4229	1	840731	8408	1	< 1			
113920	BIEB	HAWAIIAN VILLAGE	4220	0	840815	8408	1	2+- 2			
101560	BIEB	MACON HEALTH CARE C	4228	1	840731	8408	1	1+- 1			
114297	BIEB	MOBILE WORLD FORES	4217	0	840815	8408	1	2+- 1			
100658	BIEB	SHELTERING PINES MOB	4226	1	840803	8408	1	< 2			
524276	BRYAN	B : B WATER WORKS	4205	0	811214	8408	-1	< 2			
518251	BRYAN	BLACK CREEK - WEST	4237	0	840815	8408	1	< 2			
500984	BRYAN	FORT MCALLISTER ESTA	4179	0	840629	8408	1	< 2			
501984	BRYAN	GARDNER ESTATES	4231	0	840815	8408	1	< 2			
500993	BRYAN	LAKE LORRAINE S/D	4218	0	840807	8408	1	< 2			
501160	FULLOCH	CLARK'S MOBILE HOME	4206	0	821201	8408	-1	< 2			
523368	FULLOCH	COUNTRY C. HILLS-PIN	4267	1	840104	8408	5	< 3			
501063	FULLOCH	STATESBORO	4251	7	821116	8408	5	< 3			
023183	CAMDEN	MISSION TRACE SD	4196	0	810415	8408	6	< 3			
201697	CARROLL	TEMPLE	4175	0	840726	8408	1	< 2			
201776	CARROLL	TWIN OAKS MOBILE HOM	4234	0	840824	8408	1	1+- 1			
523801	CATCOSSA	HOUSTON VALLEY WATER	4279	0	840109	8408	5	< 3			
515778	CHATHAM	COMMODORE POINT	4230	0	840808	8408	1	< 2			
502150	CHATHAM	ESTILL HAMMOCK ESTAT	4169	0	840719	8408	1	< 2			
522565	CHATHAM	GLEN OF ROBIN HOOD S	4177	1	840725	8408	1	< 2			
502196	CHATHAM	GRAYS SUBDIVISION	4238	0	840815	8408	1	< 2			
502035	CHATHAM	GROVE HILL SUBDIVISI	4239	0	840802	8408	1	2+- 2			
22112	CHATHAM	MATHEWS MOBILE HOME	4240	0	840807	8408	1	< 3			
14003	CHATHAM	MORGAN MOBILE HOME P	4227	0	840802	8408	1	< 2			
02275	CHATHAM	OCEECHEE FARMS	4284	2	840131	8408	5	< 2			
02327	CHATHAM	PINE FOREST SUBDIVIS	4167	0	840717	8408	1	< 2			
02390	CHATHAM	PINEWOOD MOBILE HOME	4168	0	840717	8408	1	< 2			
24075	CHATHAM	SAVANNAH, COFFEE FLU	4253	26	810825	8408	2	< 3			
22954	CHATHAM	SPADY ACRES MOBILE H	4198	0	810812	8408	1	< 3			
02442	CHATHAM	TALAHI LAKE ESTATES	4184	0	840717	8408	1	< 3			
02814	CHECCKEE	CHECCKEE COUNTY WATE	4282	0	831121	8408	5	< 2			
03112	CLAYTON	RIVERDALE	4182	0	840724	8408	1	< 2			
03649	COLUMBIA	GROVETOWN	4271	15	821109	8408	5	2+- 1			
03743	COCK	ADEL	4185	0	840726	8408	1	< 4			
6599	COCKETA	SWEETRIAR MHP	4199	0	820617	8408	-1	< 2			
5185	CRISP	CEDAR LAKE ESTATES	4274	1	830809	8408	5	< 2			
5194	CRISP	DOGWOOD HILL SD	4307	1	831108	8408	5	< 3			
3329	CRISP	MEADOW PARK S/D	4287	2	831108	8408	5	< 2			
6018	CRISP	OWAR HEIGHTS	4288	1	831108	8408	5	< 3			
4124	DAWSON	DAWSONVILLE	4254	2	831208	8408	5	4+- 2			
4124	DAWSON	DAWSONVILLE	4262	0	830310	8408	5	2+- 1			
4124	DAWSON	DAWSONVILLE	4293	1	831208	8408	5	7+- 3			
4225	DEKALE	DEKALE COUNTY WATER	4173	0	840724	8408	1	< 1			

TYPE -1,0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
 COLLECT DATE TYPES -1,0,2,5 = COMPOSITE DATE OR END COLLECTION DATE

	COUNTY	WATER SUPPLY	W	WELL #	COLL DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
714155	DOUGHERTY	BIG M TRAILER PARK	4225	1	840725	8408	1	< 2			
704439	DOUGHERTY	CARVER SUBDIVISION	4178	1	840725	8408	1	< 3			
125848	EFFINGHAM	FOXHALL NORTH	4248	1	840327	8408	5	< 2			
107621	EFFINGHAM	HODGESVILLE MOBILE H	4192	0	811013	8408	6	< 2			
104777	EFFINGHAM	FINCON	4216	2	840808	8408	1	< 2			
304957	EMANUEL	GARFIELD	4290	2	831103	8408	5	< 3			
304993	EMANUEL	SA AINSBRO	4300	9	840202	8408	5	< 2			
305216	FAYETTE	DIY LEE ON ESTATES	4257	6	831229	8408	5	< 2			
308540	FAYETTE	FERNWOOD MOBILE HOME	4281	1	831229	8408	5	< 2			
324400	FORSYTH	KINGS HARBOR WATER S	4292	0	830913	8408	5	< 2			
305645	FORSYTH	LADY WATER CO	4264	0	830805	8408	5	1+- 1			
326874	FORSYTH	SUNOWN S/D	4190	0	811029	8408	5	3+- 1			
305776	FRANKLIN	CANON	4258	2	840305	8408	5	< 2			
306007	FULTON	PALMETTO	4176	0	840724	8408	1	< 2			
306162	GLASCOCK	MITCHELL	4222	0	840809	8408	1	< 1			
306293	GLYNN	NEW HOPE PLANTATION	4195	2	821001	8408	1	2+- 2			
309952	GLYNN	OAK ACRES SD	4174	0	840731	8408	1	< 4			
316548	GLYNN	WINDWARD ACRES SD	4207	0	811019	8408	-1	< 3			
327338	GREENE	INDIAN HILLS ESTATES	4214	1	840723	8408	4	11+- 2			
306586	GREENE	WHITE PLAINS	4186	3	840802	8408	4	8+- 2	1.5	1.3	
306617	GWINNETT	EUFORD	4170	0	840725	8408	1	< 1			
306809	HAERSHAM	MOUNT AIRY	4191	0	820518	8408	4	< 1			
316036	HALL	MARLETTE HEIGHTS M/H	4211	0	840808	8408	4	< 2			
307058	HALL	SHADY GROVE TRAILER	4304	3	831107	8408	5	< 1			
325014	HANCOCK	SCENIC SHORES SI	4273	2	840322	8408	5	24+- 6			
325014	HANCOCK	SCENIC SHORES SD	4298	4	840322	8408	5	< 4			
325014	HANCOCK	SCENIC SHORES SD	4303	5	840322	8408	5	3+- 2			
323106	HANCOCK	WOODLAND VALLEY SD	4269	0	830329	8408	5	4+- 2			
322532	HARRIS	HARRIS COUNTY WATER	4291	0	840127	8408	5	< 1			
316134	HART	HOWERSVILLE, CITY	4261	1	840109	8408	5	2+- 2			
307528	HOUSTON	CENTERVILLE	4221	2	840815	8408	1	< 1			
312477	HOUSTON	PINEWOOD APIS. : MHP	4215	0	840808	8408	1	2+- 1			
316917	JACKSON	TOLBERT MHP	4212	3	840814	8408	4	3+- 1			
323482	JASPER	ALCOVY SHORES SD	4268	0	830331	8408	2	9+- 2			
307951	JEFFERSON	LOUISVILLE	4295	6	840116	8408	5	< 1			
308104	JONES	GRAY	4260	6	840313	8408	2	4+- 2			
308104	JONES	GRAY	4283	2	840313	8408	2	< 2			
308104	JONES	GRAY	4285	5	840313	8408	2	< 3			
308104	JONES	GRAY	4286	4	840313	8408	2	10+- 2			
308104	JONES	GRAY	4308	1	840313	8408	2	6+- 2			
308223	LANIER	LAKE LAND	4276	2	831215	8408	5	2+- 2			
308275	LAURENS	EAST DUELIN	4203	3	821007	8408	5	< 3			
305886	LAURENS	LAURENS WATER CO., I	4233	0	840808	8408	1	< 2			
314652	LAURENS	WARNOCKS TRAILER PA	4183	0	840725	8408	1	< 3			
303992	LEE	GLENDALE SD	4263	1	840110	8408	5	< 3			
307247	LIBERTY	OAK HILL ESTATES	4232	0	840816	8408	4	< 2			
306095	LIBERTY	OCDEN TP #2	4278	2	830602	8408	5	2+- 1			
305092	LIBERTY	OCDEN TP	4297	1	830602	8408	5	< 3			
305149	LINCOLN	REED POULTRY	4213	1	840809	8408	4	< 1			
307471	LONG	BOATRIGTS TRAILER P	4201	0	821214	8408	1	< 3			
303026	LOWNDES	ASHURST SD	4301	1	840315	8408	2	< 3			

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#	COUNTY	WATER SUPPLY	W	WELL #	COLL DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
208963	LOWNDES	FOXBOROUGH SUBDIVIS	4296	2	840326	8408	5	< 3			
225254	LOWNDES	HIDDEN VALLEY SD	4302	1	840306	8408	2	< 2			
525820	MALISON	JUBILEE PARTNERS #1	4280	1	840308	8408	5	10+- 2			
525820	MADISON	JUBILEE PARTNERS #1	4306	2	840308	8408	5	< 2			
376543	MCINTOSH	EULONIA COMMUNITY	4210	1	840814	8408	4	< 3			
809533	MCINTOSH	SAPELO GARDENS	4241	0	840814	8408	1	< 3			
819693	MCINTOSH	YOUNGS ISLAND WATER	4246	0	840814	8408	1	< 2			
909576	MERIWETHER	GREENVILLE	4208	0	811130	8408	-1	8+- 2	0.4	1.5	
218618	MONROE	DAVIS MOBILE HOME PK	4193	0	841208	8408	3	62+- 4	3.8	1.5	66+- 5
218618	MONROE	DAVIS MOBILE HOME PK	4194	0	830210	8408	3	41+- 4	3.8	< 1.0	
309859	MONTCOMERY	TARRYTOWN	4294	2	831116	8408	5	< 3			
721879	NEWTON	CCUNIRY ACRES MOBILE	4305	0	831130	8408	5	2+- 2			
716848	NEWTON	LOOP 81 MOBILE HOME	4299	0	840316	8408	2	2+- 2			
710123	NEWTON	BIEB MFG. CO.	4245	0	840810	8408	1	< 2			
734953	NEWTON	SPRING VALLEY SUBDIV	4277	0	840316	8408	5	131+- 8			
210389	PICKENS	EIG CANOE SUBDIVISIO	4172	3	840724	8408	4	1+- 1			
210361	PICKENS	PICKENS COUNTY WATER	4270	1	840315	8408	5	7+- 2			
722024	PUTNAM	PINE FOREST SUBDIVIS	4209	3	820107	8408	6	5+- 2			
722024	PUTNAM	PINE FOREST SUBDIVIS	4224	0	840726	8408	1	2+- 1			
110729	RICHMOND	AUGUSTA	4242	0	840810	8408	1	< 2			
110765	RICHMOND	RICHMOND COUNTY WATE	4255	105	831219	8408	5	< 2			
110765	RICHMOND	RICHMOND COUNTY WATE	4289	106	831219	8408	5	< 2			
210993	ROCKDALE	MILSTEAD	4243	0	840810	8408	1	< 2			
311063	SCHLEY	ELLAVILLE	4189	0	821027	8408	3	4+- 1	1.1		
20601	SCREVEN	ERINSONS TRAILER PAR	4244	0	840801	8408	1	< 3			
21537	SCREVEN	BUCK CREEK ACRES M.H	4235	0	840801	8408	1	< 1			
511277	SPALDING	CARLISLE SD	4265	0	831229	8408	5	< 2			
511310	SPALDING	SOUTHAMPTON MHP	4188	0	831229	8408	5	3+- 1			
11399	STEPHENS	SHOREWOOD EST. : CAM	4249	0	830928	8408	5	16+- 3			
24425	SUMTER	BRIAR PATCH MOBILE H	4171	0	840730	8408	1	< 1			
21256	SUMTER	SUMTER CO. CORRECTIO	4259	2	840106	8408	5	< 2			
26292	THOMAS	NEKARK WS	4256	1	840119	8408	5	< 2			
26760	THOMAS	RIVERWOOD SD	4275	1	840322	8408	5	3+- 2			
20753	THOMAS	TOWN : COUNTRY ESTAT	4181	1	840507	8408	1	6+- 2	2.0	< 1.0	
21665	THOMAS	TWIN ACRES SUBDIVISI	4180	1	840717	8408	1	< 3			
21936	TIFT	OAK RIDGE TRAILER PA	4266	1	831206	8408	5	83+- 6			
12283	TREUTLEN	SOPELTON	4219	0	840810	8408	1	2+- 2			
25148	WAYNE	PINE GROVE MHP	4204	0	820805	8408	-1	< 3			
13436	WHITE	SKYLAKE WATER SYSTEM	4310	4	831230	8408	5	2+- 2			
13629	WILKINSON	IRWINION WATER WORKS	4247	0	830729	8408	2	4+- 1			
13656	WILKINSON	TOONSFORD	4309	3	830831	8408	5	4+- 2			
4187		COWELA CO	4187	0	840514	8408	-1	1+- 1			

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COLLECT DATE TYPES -1,0,2,5 = COMPOSTIE DATE OR END COLLECTION DATE

#	COUNTY	WATER SUPPLY	W	WELL #	COLL DATE	IAP DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
000466	BERRIEN	ALAPAHA ,CITY OF	4360	0	840913	8409	3	17+-	2		
000475	BERRIEN	ENICMA	4349	0	840913	8409	3				
500948	FRYAN	BLACK CREEK FARMS SU	4352	0	840829	8409	1	< 2			
500966	FRYAN	FRYAN WOODS ESTATES	4374	0	840829	8409	1	< 2			
502057	FRYAN	HOLLY TRAILER PARK	4375	0	840907	8409	1	< 2			
502002	FRYAN	KENS MOBILE HOME PAR	4319	0	840829	8409	1	< 2			
500902	FRYAN	RICHMOND HILL	4316	0	840822	8409	1	< 2			
534209	FRYAN	SHUMAN TRAILER PARK	4318	0	840829	8409	1	< 3			
501160	FULLOCH	CLARK'S MOBILE HOME	4342	0	840912	8409	1	< 2			
501054	FULLOCH	REGISTER WATER ASSOC	4330	0	840912	8409	1	< 2			
023183	CANDLER	MISSION TRACE SD	4337	0	840828	8409	1	< 4			
001618	CANDLER	METTER	4325	0	840912	8409	1	4+-	2		
518537	CHATHAM	BETHSEDA HOME FOR HO	4370	0	840918	8409	1	< 2			
554321	CHATHAM	BURROUGHS COMM.	4312	1	840821	8409	4	< 3			
517792	CHATHAM	ENNIS MOBILE HOME PA	4367	0	850917	8409	1	< 2			
502211	CHATHAM	HARBOUR CREEK SUBDIV	4371	0	840919	8409	1	< 2			
502372	CHATHAM	RIVER OAKS SUBDIVISI	4361	0	840919	8409	1	< 2			
502008	CHATHAM	SAVANNAH STATE COLLE	4359	0	840918	8409	1	< 2			
526220	CHATHAM	SCAREURO COVE SD	4313	1	840821	8409	4	< 2			
522954	CHATHAM	SHADY ACRES MOBILE H	4364	0	840919	8409	1	< 3			
502424	CHATHAM	SUBURBANITE VILLAGE	4376	0	840919	8409	1	< 1			
502460	CHATHAM	VICKS MOBILE HOME PA	4355	0	840918	8409	1	< 2			
023712	CLAY	POINT PETER LANDING	4332	0	840828	8409	1	< 4			
023263	COFFEE	EVANS TRAILER PARK	4353	0	840824	8409	1	4+-	1		
005426	COFFEE	EVANS TRAILER PARK	4357	0	840824	8409	1	< 2			
015346	COLUMBITT	COLUMBITT CO MEM HOSP	4351	0	840917	8409	1	< 3			
003448	COLUMBITT	FUNSTON	4331	0	840829	8409	1	< 2			
003761	COOK	LENOX	4350	0	840912	8409	1	2+-	2		
03054	COWETA	PINE HILL EST./DIXIE	4344	0	840908	8409	4	< 2			
04411	DOUGHERTY	BRONZE HELL TRAILER	4328	0	840821	8409	1	2+-	2		
04545	DOUGHERTY	PRETORIA ACRES MOBIL	4314	1	840827	8409	1	< 3			
04387	DOUGHERTY	POTNEY WATER SUPPLY	4336	0	840821	8409	1	< 2			
04554	DOUGHERTY	SANBORN TRAILER PARK	4341	0	840827	8409	1	< 2			
06451	GLYNN	JACKYLL ISLAND AUTHCR	4365	0	810829	8409	1	< 2			
16627	GLYNN	LIVE OAKS TP	4340	0	840911	8409	1	2+-	2		
06793	HAERSHAM	DEMOREST	4347	0	840914	8409	4	< 2			
06793	HAERSHAM	DEMOREST	4348	0	840918	8409	4	< 2			
06793	HAERSHAM	DEMOREST	4362	0	840918	8409	4	< 2			
06793	HAERSHAM	DEMOREST	4377	0	840914	8409	4	< 2			
12574	HOUSTON	CHRIST SANCTIFIED HOL	4343	0	840911	8409	1	4+-	2		
07634	HOUSTON	GLEATONS MHP	4339	0	840911	8409	1	4+-	2		
07643	HOUSTON	HOLIDAY RIVIERA MHP	4338	0	840904	8409	1	< 2			
07591	HOUSTON	WARNER ROBINS	4322	0	840821	8409	1	< 2			
07747	IRWIN	OCTILLA	4358	0	840911	8409	1	< 1			
4607	LAURENS	MALONE'S LAKE PARK	4378	0	840904	8409	1	< 2			
6383	LIBERTY	ENNETT TRAILER PARK	4366	0	840912	8409	1	< 2			
4167	LIBERTY	DENMARK TRAILER PARK	4356	0	840904	8409	1	< 3			
8686	LIBERTY	ISLE OF WIGHT CO. S/	4327	0	840829	8409	1	< 2			
4228	LIBERTY	LAKE SIDE MOBILE HOME	4373	0	840912	8409	1	< 2			
7247	LIBERTY	OAK HILL ESTATES	4345	0	840911	8409	4	< 2			
8852	LIBERTY	WALTHOURVILLE	4321	0	840824	8409	1	< 2			

TYPE -1,0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
COLLECT DATE TYPES -1,0,2,5 = COMPOSITE DATE OR END COLLECTION DATE



#	COUNTY	WATER SUPPLY	W	WELL #	COLL DATE	LAB DATE	TYPE	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
125169	LONG	CEDAR BROOK MHP	4372	0	840904	8409	1	< 2			
127271	LONG	JOE PHILLIPS MHP	4311	1	840823	8409	4	< 3			
214772	LOWNDES	EANKS MOBILE HOME PA	4333	0	840830	8409	1	< 2			
321078	MCINTOSH	BRIAR PATCH WATER AS	4354	0	840913	8409	1	< 2			
321430	MCINTOSH	CANNON BLUFF WATER A	4363	0	840913	8409	1	< 3			
309506	MCINTOSH	DARIEN	4368	0	840913	8409	1	< 3			
321087	MCINTOSH	JONES COMMUNITY WATE	4317	0	840827	8409	1	< 3			
319310	MCINTOSH	JOHN ALFORD SUECTIVIS	4369	0	840913	8409	1	< 3			
310401	PIERCE	PATTERSON	4326	0	840912	8409	1	< 2			
511933	THOMAS	PAVO	4323	1	840828	8409	1	< 3			
536678	THOMAS	SUNNY BELLE ACRES WA	4334	0	840806	8409	1	< 2			
521665	THOMAS	TWIN ACRES SUECTIVIS	4335	0	840828	8409	1	< 3			
112314	TROUP	WEST POINT	4320	0	840830	8409	3	< 2			
212445	TURNER	SYCAMORE	4329	0	840828	8409	1	< 2			
013216	WASHINGTON	SANDERSVILLE	4324	4	840830	8409	4	< 1			
113277	WAYNE	ODUM	4346	2	840917	8409	4	4+- 2			
114748	WAYNE	SPRING GROVE S/D	4315	0	840830	8409	1	< 3			

S: TYPE -1,0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
: COLLECT DATE TYPES -1,0,2,5 = COMPOSITE DATE OR END COLLECTION DATE

Table 23

Exposure Rates at Nuclear Facilities  
Measured with TLD's

ALABAMA POWER NUCLEAR PLANT FARLEY ... 840426-840918 :145

TLD#	MR	MICRR/HR	MR/YR
1.0 (+-)	28.1 4.1	8.1 1.2	70.9 10.3
2.0 (+-)	17.9 2.7	5.2 0.8	45.1 6.8
3.0 (+-)	17.9 2.7	5.1 0.8	45.0 6.9
4.0 (+-)	20.2 3.1	5.8 0.9	50.8 7.8
5.0 (+-)	15.6 2.8	4.5 0.8	39.1 7.0
6.0 (+-)	20.8 2.6	6.0 0.8	52.4 6.6
7.0 (+-)	26.7 2.9	7.7 0.8	67.2 7.3
8.0 (+-)	24.4 3.8	7.0 1.1	61.3 9.5
9.0 (+-)	20.5 2.5	5.9 0.7	51.7 6.4
10.0 (+-)	12.8 1.7	3.7 0.5	32.3 4.2
11.0 (+-)	21.1 2.6	6.1 0.8	53.2 6.6
12.0 (+-)	18.6 2.4	5.3 0.7	46.8 6.1
13.0 (+-)	16.9 3.0	4.9 0.9	42.5 7.6
14.0 (+-)	14.9 3.4	4.3 1.0	37.5 8.5
15.0 (+-)	18.4 2.3	5.3 0.7	46.3 5.8
16.0 (+-)	16.2 3.2	4.7 0.9	40.9 8.0
17.0 (+-)	18.2 3.5	5.2 1.0	45.9 8.7
18.0 (+-)	27.8 3.2	8.0 0.9	70.0 8.0

19.0 (+-)	21.2 3.3	6.1 0.9	53.3 8.2
20.0 (+-)	20.9 2.7	6.0 0.8	52.7 6.8
21.0 (+-)	22.4 3.3	6.4 0.9	56.5 8.2
23.0 (+-)	20.6 3.4	5.9 1.0	51.8 8.5
24.0 (+-)	25.2 2.7	7.2 0.8	63.4 6.8
25.0 (+-)	20.0 3.8	5.7 1.1	50.2 9.4
26.0 (+-)	17.8 3.2	5.1 0.9	44.7 8.0
NET. AVG.: (+-)	20.2 7.9	5.8 2.3	50.9 19.8

ATE BACKGROUND FARLEY ... 840426-840918 : 145

TLD#	MR	MICRR/HR	MR/YR
9.0 (+-)	24.4 4.0	7.0 1.1	61.3 10.0
10.0 (+-)	29.3 7.5	8.4 2.1	73.8 16.8
11.0 (+-)	20.6 3.5	5.9 1.0	51.9 8.7
12.0 (+-)	17.6 3.1	5.1 0.9	44.4 7.7
29.0 (+-)	26.1 3.2	7.5 0.9	65.8 8.0
30.0 (+-)	21.5 3.3	6.2 0.9	54.2 8.2
31.0 (+-)	28.4 4.7	8.2 1.3	71.4 11.8
NET. AVG.: (+-)	24.0 8.6	6.9 2.5	60.4 21.5

ORGIA POWER PLANT HATCH ... 840710 -840926 :78

TLD#	MR	MICRR/HR	MR/YR	
1.0	10.2	5.4	47.5	
(+-)	1.7	0.9	7.9	
2.0	10.2	5.4	47.5	
(+-)	1.9	1.0	9.0	
3.0	11.1	5.9	51.9	
(+-)	2.3	1.2	10.7	
4.0	7.9	4.2	37.0	
(+-)	2.1	1.1	9.8	
5.0	9.1	4.9	42.6	
(+-)	2.3	1.2	10.9	
6.0	8.9	4.8	41.7	
(+-)	2.2	1.2	10.3	
7.0	9.8	5.2	46.0	
(+-)	1.7	0.9	7.9	
8.0	8.8	4.7	41.2	
(+-)	1.6	0.9	7.7	
10.0	8.6	4.6	40.4	
(+-)	1.5	0.8	6.9	
11.0	7.1	3.8	33.1	
(+-)	1.3	0.7	6.3	
12.0	9.2	4.9	43.1	
(+-)	2.3	1.2	10.8	
13.0	12.2	6.5	56.9	
(+-)	2.3	1.2	10.6	... <> 95% NORMAL DIST.
14.0	8.6	4.6	40.3	
(+-)	1.9	1.0	9.0	
15.0	9.4	5.0	43.9	
(+-)	2.2	1.2	10.2	
16.0	8.6	4.6	40.2	
(+-)	2.3	1.2	10.8	
17.0	9.2	4.9	43.0	
(+-)	1.8	1.0	8.4	
18.0	9.5	5.1	44.6	
(+-)	1.9	1.0	8.7	

19.0	8.6	4.6	40.2
(+-)	2.2	1.2	10.2

20.0	8.9	4.8	41.7
(+-)	1.7	0.9	7.9

21.0	10.0	5.3	46.7
(+-)	1.5	0.8	7.1

22.0	10.2	5.4	47.6
(+-)	2.6	1.4	12.2

23.0	8.0	4.3	37.3
(+-)	1.9	1.0	8.8

24.0	9.3	5.0	43.4
(+-)	2.5	1.3	11.6

25.0	6.7	3.6	31.2
(+-)	1.9	1.0	8.9

26.0	6.8	3.6	31.8
(+-)	1.9	1.0	9.0

27.0	9.2	4.9	43.0
(+-)	2.5	1.3	11.7

28.0	9.8	5.2	45.7
(+-)	2.2	1.2	10.4

29.0	6.6	3.5	31.0
(+-)	2.2	1.2	10.5

30.0	8.4	4.5	39.4
(+-)	3.4	1.8	15.7

31.0	7.5	4.0	34.9
(+-)	1.5	0.8	6.8

32.0	8.9	4.7	41.6
(+-)	1.7	0.9	7.9

33.0	9.5	5.1	44.4
(+-)	1.9	1.0	8.8

34.0	7.6	4.0	35.4
(+-)	2.1	1.1	9.7

35.0	9.4	5.0	44.0
(+-)	2.0	1.1	9.3

36.0	6.4	3.4	29.8
(+-)	1.3	0.7	6.3

37.0	8.4	4.5	39.1
(+-)	1.8	1.0	8.3

38.0	7.2	3.8	33.5
(+-)	1.7	0.9	8.1

39.0	7.7	4.1	35.9
(+-)	1.8	1.0	8.4

40.0	8.0	4.3	37.5
(+-)	1.5	0.8	7.2

41.0	7.0	3.7	32.7
(+-)	1.6	0.8	7.3
42.0	8.8	4.7	41.2
(+-)	2.2	1.2	10.4
43.0	9.4	5.0	44.0
(+-)	1.6	0.9	7.5
44.0	8.7	4.7	40.8
(+-)	1.7	0.9	7.8
45.0	9.3	5.0	43.7
(+-)	1.6	0.9	7.5
46.0	10.8	5.8	50.7
(+-)	1.9	1.0	9.1
47.0	8.9	4.8	41.6
(+-)	1.8	0.9	8.2
49.0	9.8	5.2	45.7
(+-)	1.6	0.8	7.4
NET. AVG.:	8.8	4.7	41.2
(+-)	2.5	1.3	11.5

ATE BACKGROUND HATCH ... 840710 -840926 : 78

TLD#	MR	MICRR/HR	MR/YR
4.0	16.2	8.6	75.7
(+-)	2.4	1.3	11.2
5.0	15.9	8.5	74.2
(+-)	2.1	1.1	10.0
6.0	9.8	5.3	46.1
(+-)	1.8	0.9	8.2
7.0	10.4	5.6	48.7
(+-)	2.0	1.0	9.2
8.0	8.4	4.5	39.5
(+-)	2.2	1.2	10.4
NET. AVG.:	12.1	6.5	56.8
(+-)	7.2	3.9	33.8



NUCLEAR PLANT SEQUOYAH ... 840327-840907: 164 DAYS

TLD#	MR	MICRR/HR	MP/YR
1.0 (+-)	22.6 3.1	5.7 0.8	50.2 2.0
2.0 (+-)	23.6 4.1	6.0 1.0	52.4 9.1
3.0 (+-)	26.3 2.6	5.9 0.7	51.9 5.9
4.0 (+-)	27.8 4.3	7.1 1.1	61.9 9.6
5.0 (+-)	29.4 3.3	5.9 0.8	52.1 7.3
6.0 (+-)	25.1 3.3	6.4 0.8	55.9 7.3
7.0 (+-)	25.9 3.4	6.6 0.9	57.6 7.7
8.0 (+-)	28.7 4.1	7.3 1.0	63.9 9.2
9.0 (+-)	32.1 4.3	8.1 1.1	71.4 9.6
11.0 (+-)	31.4 3.3	8.0 0.8	63.9 7.4
BET. AVG. (+-)	26.4 6.9	6. 1.8	58.7 15.4

TE BALI CROUND SEQUOYAH ... 840327-840907: 164 DAYS

TLD#	MR	MICR P/HR	MP/YR
13.0	19.1	4.6	42.5
(+-)	2.2	0.6	5.0
14.0	41.6	10.6	92.6
(+-)	5.5	1.4	12.3
15.0	35.0	3.9	77.8
(+-)	3.9	1.0	8.7
NET. AVG.:	31.9	8.1	70.9
(+-)	23.1	5.9	51.5

ANNAR RIVER PLANT ... 840502-840905: 126 DAYS

TLD#	NR	NICRR/HR	NR/YR
1.0 (+-)	15.8 3.0	5.2 1.0	45.7 8.6
2.0 (+-)	19.5 2.7	6.4 0.9	56.4 7.8
3.0 (+-)	23.3 3.5	7.7 1.2	67.5 10.2
4.0 (+-)	20.8 3.0	6.9 1.0	60.3 8.8
5.0 (+-)	20.9 3.0	6.9 1.0	60.5 8.6
6.0 (+-)	22.0 3.5	7.3 1.2	63.6 10.2
7.0 (+-)	17.9 3.4	5.9 1.1	51.8 9.8
8.0 (+-)	16.1 2.4	5.3 0.8	46.8 6.9
10.0 (+-)	23.5 3.4	7.8 1.1	69.1 9.8
11.0 (+-)	14.8 3.8	4.9 1.3	42.9 11.1
12.0 (+-)	17.0 2.5	5.6 0.8	49.3 7.2
13.0 (+-)	14.3 2.6	4.7 0.9	41.3 7.7
14.0 (+-)	18.0 2.2	6.0 0.7	52.2 6.4
17.0 (+-)	16.1 2.9	5.3 1.0	46.7 8.4
18.0 (+-)	16.7 2.6	5.5 0.9	48.4 7.6
19.0 (+-)	16.9 2.9	5.6 1.0	48.9 8.4
21.0 (+-)	15.9 2.9	5.3 1.0	46.1 8.5

20.0	15.5	5.1	44.9
(+-)	2.5	3.8	7.2
23.0	25.0	6.3	72.5
(+-)	3.5	1.1	19.0
24.0	17.7	5.8	51.2
(+-)	3.0	1.0	8.7
25.0	23.6	7.8	68.4
(+-)	2.1	1.0	9.0
NET. AVG.:	18.6	6.2	54.0
(+-)	6.6	2.2	19.0

ANNAS RIVER PLANT ... 631200 640905: 273 DAYS

TIME	HR	WINDY HR	HR/YR
15.0	41.9	5.4	56.0
(+-)	8.1	1.2	10.8
17.0	32.3	4.9	43.2
(+-)	4.2	0.6	5.7
NET. AVG.:	37.1	5.7	49.6
(+-)	13.6	2.1	18.2

TE BACKGROUND CRP ... 840502-840905: 126 DAYS

ILD#	MR	HICRR/HI	NR YR
1.0	29.9	4.9	86.8
(+)	4.3	1.2	12.4
2.0	15.5	5.1	44.9
(+)	2.6	8.9	7.5
3.6	23.2	3.7	67.2
(+)	3.2	1.1	9.3
NET. AVG.:	22.9	3.6	66.3
(+)	14.4	4.8	41.3



GEORGIA INSTITUTE OF TECHNOLOGY  
OFFICE OF INTERDISCIPLINARY PROGRAMS  
205 OLD CIVIL ENGINEERING BUILDING  
ATLANTA, GEORGIA 30332

ENVIRONMENTAL RESOURCES CENTER  
(404) 894-2375

BIOENGINEERING CENTER  
(404) 894-2375

DATE: November 15, 1984

TO: James Hardeman, Program Manager  
Environmental Radiation Program  
Environmental Protection Division, DNR

FROM: Bernd Kahn, Director  
Environmental Resources Center

SUBJECT: Monthly Report of Activities for the State by the  
Environmental Radiation Laboratory, October, 1984

---

The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental radionuclide monitoring at nuclear facilities by DNR staff	Table 1-17
Radioactivity monitoring by DHR staff	Table 18
Monitoring by DNR staff of Community Water Systems	Table 19

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity that may be attributed to the facility:

Tables 12, 13, 15 and 17--H-3 in milk, rainwater, surface water and grass at the Savannah River Plant.  
Table 8--H-3 in surface water at the Farley Nuclear Plant.

All other radionuclides in Tables 1-17 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables.

Smears obtained by DHR staff at Georgia Tech (see Table 18) in most instances showed elevated values in the H-3 window of the liquid scintillation counter. Several of the smears also yielded positive count rates in the higher-energy windows commonly used for C-14 and P-32 measurements, although these counts may be due to other radionuclides.

Radioactivity results for community water supplies, compiled in Table 19, include partial data for samples WS4167-4454.

High uranium concentrations ( $>15$  pCi/l) were found in the following:

WS4194 Davis MHP  
WS4395 Brooks  
WS4396 Molena

Analyses of samples WS4227 - 4310 cannot be continued until additional samples are delivered from storage. Results for community water supplies are reported in a different form this month due to computer difficulties.

No TLD's were collected during the month because the reader was being renovated.

The types of samples and number of each that were analyzed are summarized in the following two tables.

Number of Samples Analyzed in Month

	water	air filter	air cartridge	milk	grass veg.	soil, sediment	animals	smears	TLD
gross alpha	131	6							
gross beta	20	10							
gamma spectra	18	7	16	10	11	2		3	
H-3	22			10	14				
Sr-89/90	11			7					
I-131	5			10					
Ra-226	8								
Ra-228	8								
U	4								
Pu									
dose									
other									



Sample Types Analyzed in Month

<u>Sample Types</u>	<u>Analyzed in Month</u>
Community water supplies	125
Nuclear facilities	194
Quality control - EPA	14
Total	<u>333</u>

Table 1

Radioactivity Levels in Water Samples from  
the Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>H-3, pCi/l</u>
B 1139	TLD #22, surface	<200
B 1140	TLD #48, surface	<200
B 1141	TLD #18, ground	<200
B 1142	TLD #19, ground	<200
B 1143	TLD #22, ground	<200
B 1144	TLD #28, ground	<200
B 1145	TLD #44, ground	<200

- 
- Notes: 1. Other results of analyses are given in  
Table 2 of the monthly report for  
September, 1984.
2. No man-made photon-emitting radionuclides  
were detected in samples B1139-1140 (Cs-137  
<20 pCi/l).

Table 2

Radioactivity Levels in Air Samples from the  
Environment of the Hatch Nuclear Plant

Sample No.	Sample type	Location	Volume, m3	Radionuclide concen- tration, pCi/m3	
				I-131	Gross beta
B 1146*	Cartridge Paper filter	Substation	3593	<0.004 -----	----- 0.010
B 1147*	Cartridge Paper filter	Dead River Rd.	2026	<0.006 -----	----- 0.022
B 1152*	Cartridge Paper filter	Dead River Rd.	1616	<0.008 -----	----- 0.024
B 1153*	Cartridge Paper filter	Plant Hatch	1221	< 0.01 -----	----- 0.022
B 1154*	Cartridge Paper filter	Substation	2477	<0.005 -----	----- 0.013

- 
- Notes: 1. Samples B1146-1147 were collected on September 24, 1984 after 29-day sampling; samples B1152-1154 were collected on October 15, 1984 after 21 day sampling.
2. No other man-made photon-emitting radionuclides were detected in
3. Air filter sample B1148, Plant Hatch, was not submitted.

Table 3

Radioactivity Levels in Milk Samples from  
the Environment of the Hatch Nuclear Plant

<u>Sample No</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B 1149*	GSP	< 5	< 2	< 10	2.0	<200	<0.4
B 1150*	Johnson Bros	< 5	4	< 6	1.7	<200	<0.3
B 1151*	Williamson	< 5	< 2	< 6	1.7	<200	<0.5
B 1157*	GSP	---	---	< 10	1.8	<300	<0.4
B 1158*	Williamson	---	---	< 10	1.8	<300	<0.4
B 1159*	Johnson Bros.	---	---	< 10	1.9	<300	<0.7

---

Notes: 1. Samples B1149-1151 were collected on September 24, 1984; samples B1157-1159 were collected on October 22, 1984. All were collected by Georgia Power Co. staff.

2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 4

Radioactivity Levels in Water Samples from  
the Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>
B1155*	Station 170	<2	3 $\pm$ 2	<200
B1156*	Station 172	<1	4 $\pm$ 2	<200

- 
- Notes: 1. Quarterly samples were collected July 4 - September 26, 1984 by  
by Georgia Power Co. staff.
2. No man-made photon-emitting radionuclides were detected in these  
samples (Cs-137 <20 pCi/l).

Table 5

Radioactivity Levels in Grass Samples from the  
Environment of the Hatch Nuclear plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>	
			<u>Cs-137</u>	<u>Be-7</u>
B1160*	# 5	0.43	650	4,500
B1161*	# 17	0.26	170	3,600
B1162*	# 21	0.49	<60	3,300

- 
- Notes: 1. Samples were collected on October 19, 1984 by Georgia Power Company staff.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 6

Radioactivity Levels in Air Samples from the  
Environment in Georgia of the Farley Nuclear Plant

Sample No.	Sample type	Location	Volume, m3	Radionuclide concen- tration, pCi/m3	
				I-131	Gross beta
F 824*	Cartridge Paper filter	Great Southern Paper	4186	<0.002 -----	----- 0.011
F 825*	Cartridge Paper filter	Blakely Water Tower	3095	<0.002 -----	----- 0.010
F 835*	Cartridge Paper filter	Blakely Water Tower	666	<0.05 -----	----- 0.030
F 836*	Cartridge Paper filter	Great Southern Paper	4531	<0.002 -----	----- 0.013

- 
- Notes: 1. Samples F824 -825 were collected on September 28, 1984 after 28-day sampling; samples F835-836 were collected on October 17, 1984 after 19-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 7

Radioactivity Levels in Milk Sample from  
the Environment in Georgia of the Farley Nuclear plant

<u>Sample No.</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F 826*	MB-1110-M5 100884	< 5	2	8	1.8	<300	<0.6

---

Notes: 1. Sample was collected on October 8, 1984 by Alabama Power Co. staff.

2. No other radionuclides were detected (Ba-140 <20 pCi/l).



Table 8

Radioactivity Levels in Water Samples from  
the Environment in Georgia of the Farley Nuclear plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F 827	Chattahoochee R., Great Southern Paper Co.	<1	$3 \pm 2$	<200	-----
F 828*	Chattahoochee R., WRI-M5-0984	<1	$3 \pm 2$	900 $\pm$ 200	< 1
F 829*	Chattahoochee R., WRB-M5-0984	<1	$3 \pm 2$	<200	< 1

- 
- Notes: 1. Sample F827 was collected September 18-25, 1984; samples F828-829 were collected during September, 1984 by Alabama Power Co. staff.
2. I-131 was calculated as of the final day of the collection period.
3. No man-made photon-emitting radionuclides were detected in these samples. (Cs-137 <20 pCi/l).

Table 9

Radioactivity Levels in Quarterly Composite Air Filters  
from the Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dates, 1984</u>	<u>Volume, m3</u>	<u>Cs-137 concentration, fCi/m3</u>
F 830* (810,825)	Blakely Water Tower	Aug., Sept.	6943	<0.3
F 831* (809,824)	Great Southern Paper Co.	Aug., Sept.	8904	<0.3

- 
- Notes: 1. Two filters collected at the same loction were analyzed by gamma-ray spectrometry. See report for September and Table 6 for gross beta activity in individual filters and collection dates.
2. No other photon-emitting radionuclides were detected excepted naturally occurring Be-7.

Table 10

Radioactivity Levels in Grass Samples from the  
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>	
			<u>Cs-137</u>	<u>Be-7</u>
F 832*	FB-1218-Q5 100984	0.48	<100	1,800
F 833*	FI-0701-Q5 100984	0.51	<100	3,300

- 
- Notes: 1. Samples were collected on October 9, 1984 by Alabama Power Co. staff.
3. No other man-made photon-emitting radionuclide were detected.  
Be-7 is formed in nature.

Table 11

Radioactivity Levels in Sediment Sample from the  
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>			
			<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
F 834*	RSI-35 101684	0.79	< 50	2,500	500	1,000

- 
- Notes: 1. Sample was collected on October 16, 1984 by Alabama Power Co. staff.
2. No other man-made photon-emitting radionuclides were detected.

Table 12

Radioactivity Levels in Grass Samples from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>H-3, pCi/l</u>
SR 1665	TLD # 1	500 $\pm$ 300
SR 1666	TLD # 4	700 $\pm$ 300
SR 1667	TLD # 6	600 $\pm$ 300
SR 1668	TLD # 8	900 $\pm$ 300
SR 1669	TLD # 10	8,500 $\pm$ 300
SR 1670	TLD # 11	25,200 $\pm$ 600
SR 1671	TLD # 15	1,000 $\pm$ 400
SR 1672	TLD # 17	1,200 $\pm$ 300
SR 1673	TLD # 20	900 $\pm$ 300
SR 1674	TLD # 22	600 $\pm$ 300
SR 1675	TLD # 25	19,100 $\pm$ 500
SR 1703	Simulator	3,100 $\pm$ 300
SR 1704	Waynesboro	1,900 $\pm$ 300
SR 1705	Hancock Landing	20,800 $\pm$ 600

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Notes: 1. Samples SR 1665-1675 were collected on September 5-6, 1984; samples SR 1703-1705 were collected on September 18, 1984. by Georgia Power Company staff.

2. Other results are reported in Table 15 of the report for September 1984.

Table 13

Radioactivity Levels in Water Samples from  
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 1691	Girard, rain	-----	-----	800+200	-----
SR 1692	I & D Water Supply, Port Wentworth	-----	-----	3,000+200	-----
SR 1712	Savannah R., Hwy 301	< 2	6 ± 2	3,000+200	< 0.9
SR 1716	Savannah R., R-2	< 1	3 ± 1	300+200	< 0.8
SR 1717	Savannah R., R-10	< 1	2 ± 2	4,700+200	< 0.9
SR 1724	I & D Water Supply, Port Wentworth	< 1	3 ± 2	3,700+200	< 3
SR 1728	Port Wentworth, raw composite	< 2	2 ± 2	3,100+300	-----
SR 1729	RM 150.4	< 2	3 ± 2	800+300	-----
SR 1730	RM 146.7	< 2	3 ± 2	2,300+300	-----
SR 1731	RM 151.2	< 1	2 ± 2	600+300	-----

- Notes: 1. Other results of analyses for samples SR1691-1692 are given in Table 14 of the monthly report for September, 1984.
2. Sample SR1712 was collected August 27 - September 26, 1984; samples SR1716-1717 were collected October 9, 1984 by Savannah River Plant staff; sample SR 1724 was collected October 3-9, 1984; samples SR 1728-1731 were collected September 11- October 8, 1984 by Savannah River Plant staff.
3. I-131 was calculated as of the final day of the collection period. No man-made photon-emitting radionuclides were detected in samples SR 1692, 1712, 1716-1717, 1724, and 1728-31.

Table 14

Radioactivity Levels in Air Samples from the  
Environment in Georgia of the Savannah River Plant

Sample No.	Sample type	Location	Volume, m3	Radionuclide concentration, pCi/m3		
				I-131	Gross alpha	beta
SR 1706	Cartridge Paper filter	Simulator	1445	<0.01 -----	----- <0.001	----- 0.004
SR 1707	Cartridge Paper filter	Ga. Welcome	525	<0.1 -----	----- <0.001	----- 0.007
SR 1708	Cartridge Paper filter	Girard	1680	<0.01 -----	----- <0.001	----- 0.003
SR 1709	Cartridge Paper filter	Waynesboro	659	<0.01 -----	----- <0.001	----- 0.007
SR 1710	Cartridge Paper filter	Hargrove Rd.	1883	<0.01 -----	----- <0.001	----- 0.003
SR 1711	Cartridge Paper filter	Augusta	2199	<0.01 -----	----- <0.001	----- 0.002

- 
- Notes: 1. Samples were collected on September 26, 1984 after 30-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 15

Radioactivity Levels in Milk Samples from  
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 1713	Gracewood	< 5	2	<6	1.8	600 $\pm$ 200	<0.5
SR 1714	Waynesboro			<10	2.0	500 $\pm$ 200	<0.4
SR 1715	Girard	< 5	< 2	<6	1.6	1,200 $\pm$ 200	<0.5

- 
- Notes: 1. Samples were collected on October 4, 1984 by Savannah River Plant staff.  
2. No other radionuclides were detected (Ba-140 <20 pCi/l).



Table 16

Radioactivity Levels in Quarterly Composite Air Filters  
from the Environment in Georgia of the Savannah River Plant

<u>Samples No.</u>	<u>Location</u>	<u>Dates, 1984</u>	<u>Volume, m3</u>	<u>Cs-137 concentration, pCi/m3</u>
SR 1718	Simulator	July - Sept.	8467	<0.3
SR 1719	Ga. Welcome	July - Sept.	4281	<0.3
SR 1720	Girard	July - Sept.	7580	<0.3
SR 1721	Waynesboro	July - Sept.	6314	<0.3
SR 1722	Hargrove Rd.	July - Sept.	4936	<0.3
SR 1723	Augusta	July - Sept.	8118	<0.3

- 
- Notes: 1. Three filters collected successively at the same location were analyzed by gamma-ray spectrometry. See earlier reports and Table 14 for gross beta activity in individual filters and collection dates.
2. No other photon-emitting radionuclides were detected except naturally occurring Be-7.

Table 16

Radioactivity Levels in Quarterly Composite Air Filters  
from the Environment in Georgia of the Savannah River Plant

<u>Samples No.</u>	<u>Location</u>	<u>Dates, 1984</u>	<u>Volume, m3</u>	<u>Cs-137 concentration, pCi/m3</u>
SR 1718	Simulator	July - Sept.	8467	<0.3
SR 1719	Ga. Welcome	July - Sept.	4281	<0.3
SR 1720	Girard	July - Sept.	7580	<0.3
SR 1721	Waynesboro	July - Sept.	6314	<0.3
SR 1722	Hargrove Rd.	July - Sept.	4936	<0.3
SR 1723	Augusta	July - Sept.	8118	<0.3

- 
- Notes: 1. Three filters collected successively at the same location were analyzed by gamma-ray spectrometry. See earlier reports and Table 14 for gross beta activity in individual filters and collection dates.
2. No other photon-emitting radionuclides were detected except naturally occurring Be-7.

Table 17

Radioactivity Levels in Grass Samples from the  
Environment in Georgia of the Savannah River Plant

Sample No.	location	Dry wt/ Wet wt.	H-3, pCi/l	Radionuclide concentration, pCi/kg	
				Cs-137	Be-7
SR 1725	Simulator	0.28	2,400±300	500	3,400
SR 1726	Waynesboro	0.61	800±300	<50	3,300
SR 1727	Hancock Landing	0.49	2,000±300	430	7,000

- 
- Notes: 1. Samples were collected on October 22, 1984 by Savannah River plant staff.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 18

## Radioactivity Levels in Smears from Georgia Tech

<u>Sample No.</u>	<u>Identification</u>	<u>H-3, pCi/smear</u>	<u>C-14, pCi/smear</u>	<u>P-32, pCi/smear</u>
S 2421	# 19	31 $\pm$ 2	82 $\pm$ 3	139 $\pm$ 3
S 2422	# 21	< 2	136 $\pm$ 4	191 $\pm$ 3
S 2423	# 22	140 $\pm$ 9	3 $\pm$ 2	3 $\pm$ 2
S 2424	# 23	160 $\pm$ 9	3 $\pm$ 2	7 $\pm$ 2
S 2425	# 24	260 $\pm$ 10	32 $\pm$ 2	8 $\pm$ 2
S 2426	# 25	163,000 $\pm$ 200	< 3	< 2
S 2427	# 26	500 $\pm$ 12	7 $\pm$ 2	19 $\pm$ 2
S 2428	# 28	320 $\pm$ 11	< 3	< 2
S 2429	# 29	260 $\pm$ 10	< 3	< 2
S 2430	# 30	190 $\pm$ 9	< 3	< 2
S 2431	# 31	130 $\pm$ 8	23 $\pm$ 2	< 2
S 2432	# 1	< 3	< 1	< 1
S 2433	# 2	46 $\pm$ 2	7 $\pm$ 1	7 $\pm$ 1
S 2434	# 3	< 3	< 1	< 2
S 2435	# 4	31,100 $\pm$ 40	< 4	< 1
S 2436	# 5	130 $\pm$ 3	2 $\pm$ 1	< 1
S 2437	# 6	24 $\pm$ 2	< 2	< 1
S 2438	# 7	14 $\pm$ 2	< 1	< 2

Notes: 1. Samples S2416 - 2431 were collected in the Chemistry Dept.; samples S2432-2438 were styrofoam smears from other campus labs. All were collected on September 13, 1984 by DHR personnel.

2. The radionuclides listed in the headings refer to the energy windows, not necessarily to the radionuclides present.

Table 19  
Radioactivity Levels in Community Water Supplies

FILE	LOCATION	DATE COLLECTED	TYPE + WELL#	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 226 PCI/L	URANIUM PCI/L
<hr/>							
4167...302502327	PINE FOREST SD	7-17-84	1.000	< 2			
4168...302502390	PINEWOOD MHF	7-17-84	1.000	< 2			
4169...302502150	ESTILL HAMMOCK	7-19-84	1.000	< 2			
4170...306706617	EUFORD	7-25-84	1.000	< 1			
4171...312924425	BRIAR PATCH MHF	7-30-84	1.000	< 1			
4172...311210389	EIC CANOE	7-24-84	4.003	1 + 1			
4173...304404225	CLARKSTON	7-24-84	1.000	< 1			
4174...406309952	CAK ACRES WATER ASSN	7-31-84	1.000	< 4			
4175...302201697	TEMPLE	7-26-84	1.000	< 2			
4176...306006007	PALMETTO	7-24-84	1.000	< 2			
4177...302522565	GLENN OF ROBIN HOOD	7-25-84	1.001	< 2			
4178...304704439	CARVER SD	7-25-84	1.001	< 3			
4179...301500984	CAFE HARCHICE	6-29-84	1.000	< 2			
4180...413621665	TWIN ACRES SD	7-17-84	1.001	< 3			
4181...313620753	TOWN & COUNTRY EST	5 -7-84	1.001	6 + 2	2.0	< 1.0	
4182...303103112	RIVERDALE	7-24-84	1.000	< 2			
4183...308714652	WARNOCK'S TP	7-25-84	1.000	< 3			
4184...302502442	TALAHAI LAKES ESTATES	7-17-84	1.000	< 3			

4186...306606586	LEEL	7-26-84	1.000	< 4			
WHITE PLAINS	8 -2-84	4.003	8 + 2	1.5	1.3		
4187...000000000	COWETA CO	5-14-84	0.000	1 + 1			
4188...312611310	SOUTH HAMPTON MHP	12-29-83	5.000	3 + 1			
4189...312311063	ELLAVILLE	10-27-82	0.003	4 + 1	1.1		
4190...405826874	SUNDOWN SD	10-29-81	0.005	3 + 1			
4191...306806809	MT AIRY	5-18-82	0.004	< 1			
4192...405107621	HODGESVILLE MHP	10-13-81	6.000	< 2			
4193...310218618	DAVIS MHP	12 -8-84	3.000	62 + 4	3.8	1.5	66 + 5
4194...310218618	DAVIS MHP	2-10-83	3.000	41 + 4	3.8	< 1.0	41 + 3
4195...306306293	NEW HOPE PLANTATION	10 -1-82	1.002	2 + 2			
4196...302023183	MISSION TRACE SD	4-15-81	6.000	< 3			
4197...301000466	ALAPAHA	2-22-82	3.000	5 + 2	7.6	1.2	
4198...302522954	SHALY ACRES MHP	8-12-81	1.000	< 3			
199...303816599	SWEETPRIAR MHP	6-17-82	0.000	< 2			
200...300800292	EARTON CO	7-13-82	0.000	2 + 1			
201...409137471	FOATRICHES TP	12-14-82	1.000	< 3			
202...401001262	BENNETT'S MHP#2	1-29-82	0.000	2 + 1			
203...308708275	EAST DUELIN	10 -7-82	5.003	< 3			
204...315125148	PIKE CROVE MHP	8 -5-82	0.000	< 3			
205...301524276	E&E WATER WORKS	12-14-81	0.000	< 2			
206...301601160	CLARKS MHP	12 -1-82	0.000	< 2			

4207...306316548 WINDWARD ACRES	10-19-81	0.000	< 3		
4208...309909576 GREENVILLE	11-30-81	0.000	8 + 2	0.4	1.5
4209...311722024 PINE FOREST SD	1 -7-82	6.003	5 + 2	0.4	
4210...309876543 EULONIA COMMUNITY	8-14-84	4.001	< 3		
4211...306916036 MARLETTE HEIGHTS	8 -8-84	4.000	< 2		
4212...307816917 TOLBERT MHP	8-14-84	4.003	3 + 1		
4213...409045149 REEL POULTRY	8 -9-84	4.001	< 1		
4214...306627338 INDIAN HILLS ESTATES	7-23-84	4.001	11 + 2		1.3
4215...407612477 PINEWOOD VILLAGE	8 -8-84	1.000	2 + 1		
4216...305104777 RINCCN	8 -8-84	1.002	< 2		
4217...301114297 MOBILE WORLD	8-15-84	1.000	2 + 1		
4218...301500993 LAKE LARRAINE	8 -7-84	1.000	< 2		
4219...314012283 SOPERTON	8-10-84	1.000	2 + 2		
4220...301113920 HAWAIIAN VILLAGE MHP	8-15-84	1.000	2 + 2		
221...307607528 CENTERVILLE	8-15-84	1.002	< 1		
222...306206162 MITCHELL	8 -9-84	1.000	< 1		
223...300117114 VILLAGE MHP	8 -7-84	1.000	2 + 2		
224...311722024 PINE FOREST SD	7-26-84	1.000	2 + 1		
225...304714155 BIG M TP	7-25-84	1.001	< 2		
226...301100658 SHELTERING PINES MHP	8 -3-84	1.001	< 2		
227...302514003 MORGAN MHP	8 -2-84	1.000	< 2		
228...401101560					

PARCEL	ACRES	DATE	AMOUNT	REMARKS
1229...301114288				
CALLE VINAS SD	7-31-84	1.001	< 1	
1230...302515778				
COMMODORE FOINT	8 -8-84	1.000	< 2	
1231...401501984				
GARDNER ESTATES	8-15-84	1.000	< 2	
1232...308927247				
CAK HILL ESTATES	8-16-84	4.000	< 2	
1233...308715886				
LAURENS WATER CO INC	8 -8-84	1.000	< 2	
1234...302201776				
TWIN OAKS MHP	8-24-84	1.000	1 + 1	
1235...312421537				
BUCK CREEK ACRES MHP	8 -1-84	1.000	< 1	
1236...301100667				
BURCH GARDENS MHP	8 -3-84	1.000	< 2	
1237...301518251				
ELACK CREEK FARMS W	8-15-84	1.000	< 2	
1238...302502196				
GRAYS SD	8-15-84	1.000	< 2	
1239...302502035				
GROVE HILL SD	8 -2-84	1.000	2 + 2	
1240...302522112				
MATHEWS MHP	8 -7-84	1.000	< 3	
1241...309809533				
SAPELO GARDENS SD	8-14-84	1.000	< 3	
1242...312110729				
AUGUSTA	8-10-84	1.000	< 2	
1243...312210993				
MILSTEAD	8-10-84	1.000	< 2	
1244...412420601				
BRINSON'S TP	8 -1-84	1.000	< 3	
1245...310710123				
PORTERDALE-EIBE MFG	8-10-84	1.000	< 2	
1246...309819693				
YOUNGS ISLAND	8-14-84	1.000	< 2	
1247...315813629				
IRWINTON	7-29-83	2.000	4 + 1	
1248...305125848				
FOXECK FARMS NORTH	3-27-84	5.001	< 2	
1249...312711399				
SHOREWOOD ESTATES SD	9-28-83	5.000	16 + 3	



250...301000475 ENICMA	3-26-84	2.002	3 + 2
251...301601063 STATESBORO	11-16-82	5.007	< 3
252...301115120 AVONDALE MHP	2-20-84	5.002	3 + 1
253...302524075 SAVANNAH	8-25-81	2.026	< 3
254...304204124 DAWSONVILLE	12 -6-83	5.002	4 + 2
255...312110765 RICHMOND CO	12-19-83	5.105	< 2
256...313626292 NEWARK WATER SYS	1-19-84	5.001	< 2
257...305605216 DIX-LEE-ON ESTATES	12-29-83	5.006	< 2
258...305905776 CANON	3 -5-84	5.002	< 2
259...412921256 SUNTER CC CI	1 -6-84	5.002	< 2
260...308408104 GRAY	3-13-84	2.006	4 + 2
261...307316134 EOWERSVILLE	1 -9-84	5.001	2 + 2
262...304204124 DAWSONVILLE	3-10-83	5.000	2 + 1
263...308823992 GLENDALE SD	1-10-84	5.001	< 3
264...305805645 LADY WATER CC	8 -5-83	5.000	1 + 1
265...312611277 CARLISLE SD	12-29-83	5.000	< 2
266...413721936 OAK RIDGE TP	12 -6-83	5.001	83 + 6
267...301623368 COUNTRY CLUB HILLS	1 -4-84	5.001	< 3
268...307923482 ALCOVY SHORES	3-31-83	2.000	9 + 2
269...307023106 WOODLAND VALLEY SD	3-29-83	5.000	4 + 2
270...311210361 PICKENS CO WATER AU	3-15-84	5.001	7 + 2
271...303603649			

4272...300125278	LAKE TARA MHP	3-28-84	5.001	< 3
4273...307025014	SCENIC SHORES SD	3-22-84	5.002	24 + 6
4274...304025185	CEDAR LAKE ESTATES	8 -9-83	5.001	< 2
4275...313626760	RIVERWOOD SD	3-22-84	5.001	3 + 2
4276...308608223	LAKELAND	12-15-83	5.002	2 + 2
4277...410734953	SPRING VALLEY SD	3-16-84	5.000	131 + 8
4278...306926095	OCDEN TP #2	6 -2-83	5.002	2 + 1
4279...302323801	HOUSTON VALLEY	1 -9-84	5.000	< 3
4280...309525820	JUBILEE PARTNERS	3 -8-84	5.001	10 + 2
4281...405608540	FERAWOOD MHP	12-29-83	5.001	< 2
4282...302802814	CHEROKEE CO WS	11-21-83	5.000	< 2
4283...308408104	GRAY	3-13-84	2.002	< 2
4284...302502275	OCEECHEE FARMS SD	1-31-84	5.002	< 2
4285...308408104	GRAY	3-13-84	2.005	< 3
4286...308408104	GRAY	3-13-84	2.004	10 + 2
4287...304023329	MEADOW ROCK SD	11 -8-83	5.002	< 2
4288...304026018	OMAR HEIGHTS SD	11 -8-83	5.001	< 3
4289...312110765	RICHMOND CO WS	12-19-83	5.106	< 2
4290...305304957	GARFIELD	11 -3-83	5.002	< 3
4291...307222532	HARRIS CO WS	1-27-84	5.000	< 1
4292...305824400	KINGS HARBOR SD	9-13-83	5.000	< 2

4294...310309859 TARRYTOWN	11-16-83	5.002	< 3
4295...308107951 LOUISVILLE	1-16-84	5.006	< 1
4296...309208963 FOXBOROUGH SD	3-26-84	5.002	< 3
4297...308925092 OGDEN MHF	6 -2-83	5.001	< 3
4298...307025014 SCENIC SHORES SD	3-22-84	5.004	< 4
4299...310716848 LOCF 81 MHF	3-16-84	2.000	2 + 2
4300...305304993 SWAINSCRO	2 -2-84	5.009	< 2
4301...309226026 ASHURST ESTATES SD	3-15-84	2.001	< 3
4302...309225254 HIDDEN VILLAGE SD	3 -6-84	2.001	< 2
4303...307025014 SCENIC SHORES SD	3-22-84	5.005	3 + 2
4304...306907058 SHAIY GROVE TP	11 -7-83	5.003	< 1
4305...310721879 COUNTRY ACRES MHF	11-30-83	5.000	2 + 2
4306...309525820 JUEILEE PARTNERS	3 -8-84	5.002	< 2
4307...304025194 DOGWOOD HILLS SD	11 -8-83	5.001	< 3
4308...308408104 GRAY	3-13-84	2.001	6 + 2
4309...315813656 TCCMEBORC	8-31-83	5.003	4 + 2
4310...315413436 SKYLAKE WATER SYS	12-30-83	5.004	2 + 2

4330...301601054	REGISTER, TOWN OF	9-12-84	1.000	< 2
4331...303503448	FUNSTON, CITY OF	8-29-84	1.000	< 2
4328...304704411	BRONZE BELL TP	8-21-84	1.000	2 + 2
4332...303023712	POINT PETER LANDING	8-28-84	1.000	< 4
4333...409214772	EANKS MHP	8-30-84	1.000	< 2
4334...413636678	SUNNYHILL ACRES SD	8 -6-84	1.000	< 2
4335...413621665	TWIN ACRES SD	8-28-84	1.000	< 3
4336...304704387	PUTNEY WATER SUPPLY	8-21-84	1.000	< 2
4337...302023183	MISSION TRACE	8-28-84	1.000	< 4
4338...307607643	HOLIDAY RIVIERA MHP	9 -4-84	1.000	< 2
4339...307607634	GLEATON'S MHP	9-11-84	1.000	4 + 2
4340...306316627	LIVE OAK MHP	9-11-84	1.000	2 + 2
4341...304704554	SANFORN TP	8-27-84	1.000	< 2
4342...301601160	CLARK'S MHP	9-12-84	1.000	< 2
343...407612574	CHRIST CHURCH HOME	9-11-84	1.000	4 + 2
344...403833054	PINE HILL ESTATES	9 -8-84	4.000	< 2
345...308927247	OAK HILL ESTATES	9-11-84	4.000	< 2
346...315113277	ODUM, CITY OF	9-17-84	4.002	4 + 2
347...306806793	DEMOREST, CITY OF	9-14-84	4.000	< 2
348...306806793	DEMOREST, CITY OF	9-18-84	4.000	< 2
349...301000475	ENIGMA, CITY OF	9-13-84	3.000	9 + 2

PLE	LOCATION	DATE COLLECTED	TYPE + WELL#	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
4311...309127271	JOE PHILLIPS MHP	8-23-84	4.001	< 3			
4312...302554321	BURROUGHS COMM.	8-21-84	4.001	< 3			
4313...302526220	SCAREURC COVE SD	8-21-84	4.001	< 2			
4321...308918852	WALTHOURVILLE, CITY	8-24-84	1.000	< 2			
4314...304704545	FRETORIA ACRES	8-27-84	1.001	< 3			
4315...315114748	SPRINGGROVE ACRES SD	8-30-84	1.000	< 3			
4316...301500902	RICHMOND HILL, CITY	8-22-84	1.000	< 2			
4317...309821087	JONES CONC WATER ASN	8-27-84	1.000	< 3			
4318...401534209	SHUFAN TP	8-29-84	1.000	< 3			
4319...401502002	KEN'S MHP	8-29-84	1.000	< 2			
4320...314112314	WEST PT. WATER SYS	8-30-84	3.000	< 2			
4322...307607591	WARNER ROBINS, CITY	8-21-84	1.000	< 2			
4323...313611933	FAVO, CITY OF	8-28-84	1.001	< 3			
4324...315013216	SANDERSVILLE, CITY OF	8-30-84	4.004	< 1			
4325...302101618	METTER, CITY OF	9-12-84	1.000	4 + 2			
4326...311310401	PATTERSON, CITY OF	9-12-84	1.000	< 2			
4327...308908686	ISLE OF WIGHT SL	8-29-84	1.000	< 2			
4329...314212445	SYCAMORE, CITY OF	8-26-84	1.000	< 2			

ELACK CRK FARMS SD	8-29-84	1.000	< 2		
4353...303423263 EVANS TP #1	8-24-84	1.000	4 + 1		
4354...309821078 BRIAR PATCH WTR ASN	9-13-84	1.000	< 2		
4355...302502460 VICK'S MHP	9-18-84	1.000	< 2		
4356...408914167 DENMARK TP	9 -4-84	1.000	< 3		
4357...403405426 EVANS TP #2	8-24-84	1.000	< 2		
4358...307707747 CCILLA, CITY OF	9-11-84	1.000	< 1		
4359...302502008 SAVANNAH STATE COLL	9-18-84	1.000	< 2		
4360...301000466 ALAPAHA, CITY OF	9-13-84	3.000	17 + 2	< 1.0	< 2
4361...302502372 RIVER CAKS SD	9-19-84	1.000	< 2		
4362...306806793 DEMOREST, CITY OF	9-18-84	4.000	< 2		
4363...309821430 CANNON BLUFF WA	9-13-84	1.000	< 3		
4364...302522954 SHADY ACRES MHP	9-19-84	1.000	< 3		
4365...306306451 JEKYLL ISLAND WA	8-29-81	1.000	< 2		
4366...408936383 EENNETT'S TP	9-12-84	1.000	< 2		
4367...302517792 ENNIS MHP	9-17-85	1.000	< 2		
4368...309809506 DARIEN, CITY OF	9-13-84	1.000	< 3		
4369...309819310 JOHN ALFORD SD	9-13-84	1.000	< 3		
4370...302518537 BETHESDA BOYS HOME	9-18-84	1.000	< 2		
4371...302502211 HARECR CREEK SD	9-19-84	1.000	< 2		
4372...309125169 CEDAR CREEK MHP	9 -4-84	1.000	< 2		

4373...408914228				
LAKESIDE MHP	9-12-84	1.000	< 2	
4374...301500966				
BRYAN WOODS ESTATES	8-29-84	1.000	< 2	
4375...401502057				
HOLLY TP	9 -7-84	1.000	< 2	
4376...302502424				
SUPURE VILLAGE MHP	9-19-84	1.000	< 1	
4377...306806793				
DEMOREST, CITY OF	9-14-84	4.000	< 2	
4378...308714607				
MALONE'S LAKE PARK	9 -4-84	1.000	< 2	

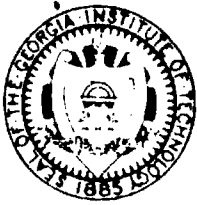
FILE	LOCATION	DATE COLLECTED	TYPE + WELL#	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
4379...315813638	IVEY, CITY OF	9-26-84	4.003	2 + 1			
4380...305805441	COLONIAL CLUB EST.	9-17-84	4.003	< 2			
4381...305905819	ROYSTON, CITY OF	8-24-84	1.000	< 1			
4382...311910643	RAE.GAP-NCCOCHEE SCH	8-17-84	1.000	< 1			
4383...313717743	FINE HILL MHP	9-21-84	3.000	95 + 5		< 1.0	
4384...306316548	WINDWARD ACRES S/D	6-20-84	1.000				
4385...313712021	TY TY, TOWN OF	9-21-84	1.000	< 2			
4386...308708415	MEADOWDALE MHP	9-18-84	1.000	< 2			
4387...311117453	PECAN HAVEN MHP	9-21-84	1.000	< 2			
4388...315913741	WORTH CO. CORR. INST	9-25-84	1.000	< 2			
4389...313712030	AGE BALDWIN AGE COLL	9-21-84	1.000	8 + 2		< 1.0	
4390...309825371	CARNIGAN WATER ASSEN	9-25-84	1.000	< 2			
4391...306320460	WOODLAND MHP	6-20-84	1.000	< 2			
4392...302001541	ST. MARY'S, CITY OF	9-26-84	1.000	< 2			
4393...308808555	PLANTATION MHP	9-17-84	1.000	< 2			
4394...313611915	MEIGS, CITY OF	9-26-84	1.000	< 3			
4395...305605146	BROCKS, CITY OF	9-15-84	1.000	53 + 4		1.2	
4396...311410444	MCLENA, CITY OF	8-23-84	1.000	132 + 9		< 1.0	176 + 14



4398...305905873	BRITTANY HARBOR #2	9-18-84	1.000	
4399...303103130	ROYAL COURT MHP	8-23-84	1.000	24 + 2
4400...305605146	EROCKS, CITY OF	8-15-84	1.000	53 + 4
4401...409315815	CANE CREEK TP	8 -2-84	1.000	< 3
4402...311410444	MOLENA, CITY OF	8-23-84	1.000	106 + 4
4403...306907003	LANIER SAILING CLUB	9-30-84	1.000	11 + 2
4404...311410444	MOLENA, CITY OF	8-23-84	1.000	122 + 6
4405...303103130	ROYAL COURT MHP	8-23-84	1.000	26 + 3
4406...409315815	CANE CREEK TP	8 -2-84	1.000	< 2
4407...311410444	MOLENA, CITY OF	8-23-84	1.001	126 + 5
4408...305905873	BRITTANY HARBOR #2	9-18-84	1.000	43 + 5
4409...302915846	SEMINOLE MHP	9-13-84	1.000	24 + 2
4410...305905873	BRITTANY HARBOR #2	9-18-84	1.000	52 + 5
4411...306907003	LANIER SAILING CLUB	9-30-84	1.000	9 + 2
4412...315118111	COLONIAL EST. MHP#2	10 -4-84	1.000	2 + 1
4413...305916501	BRITTANY HARB. WEST	9-18-84	3.000	9 + 2
4414...311027653	ERASWELL, CITY OF	10 -4-84	4.000	2 + 1
4415...312411079	HILTONIA, CITY OF	9-26-84	1.000	< 2
4416...312418496	GREEN ACRES MHP	9-25-84	1.000	< 2
4417...314813112	LAZY ACRES TP	10 -4-84	1.001	3 + 1
4418...412434277	PO' ROBIN MHP	9-25-84	1.000	< 2

4419...307307341	TUGALOC EAY	9-18-84	3.000	13 + 3
4420...312110880	MOBILE HOME C. CLUB	9-26-84	1.000	< 2
4421...301427427	FERNWOOD MHP	9-18-84	4.000	4 + 2
4422...310717391	MEADOWBROCK MHP	10-10-84	4.000	< 2
4423...309209018	MOBILE HOME EST.	9-27-84	1.000	< 2
4424...313712067	BAILEY MHP	10-10-84	1.000	2 + 2
4425...315118625	LEE WATERS MHP	10 -4-84	1.000	< 3
4426...415124249	COLONIAL EST. MHP #1	10 -4-84	1.000	< 2
4427...408027560	EDGEWOOD MHP	9-27-84	1.000	8 + 2
4428...410317035	ALLMONDS TP	10 -3-84	1.000	10 + 2
4429...402837239	PAYNE'S MHP	8-10-84	1.000	< 2
4430...308708284	MCDTROSE, CITY OF	10 -2-84	1.000	3 + 1
4431...408814063	COLONIAL ACRES S/D	10 -5-84	1.000	< 2
4432...303303277	FAIRWAYS VILLA MHP	8-10-84	1.000	2 + 2
4433...302814040	OAKLAND MHP	8-10-84	1.000	< 2
4434...308819733	CANAUGA SD	10 -5-84	1.000	< 2
4435...310910206	MAXEYS, CITY OF	10 -5-84	6.002	29 + 3
4436...403505511	GREEN ACRES MOE EST	10-10-84	1.000	
4437...310309840	MCUNT VERNON, CITY	10 -3-84	1.000	< 3
4438...408814081	COUNTRY VILLA SD	10-10-84	1.000	< 2
4439...408914273	CR STANFORD APTS.	10-17-84	1.000	< 2
4440...415925141	NEVER MHP	10 -11-84	1.000	< 2

4441...315915048	PLEASANT HILL MHP	10-11-84	1.000	< 2
4442...308808500	DIXON MHP	10-10-84	1.000	< 2
4443...401001323	WALKER'S TP	10-15-84	1.000	< 2
4444...308917336	W D STANFORD MHP	10-16-84	1.000	
4445...302522750	FOSS MHP	10-15-84	1.000	< 2
4446...310109703	CANILLA, CITY OF	10 -9-84	1.000	< 2
4447...301601027	ERCKLET, CITY OF	10-11-84	1.000	
4448...314812979	WARE CO. WATER SYST.	10 -4-84	1.000	2 + 2
4449...415124276	MURRAY TP	10 -4-84	1.000	< 2
4450...302120899	DANIEL VILLAGE MHP	10-11-84	1.000	< 2
4451...302502053	AZALEA MHP	10-15-84	1.000	< 2
4452...306306252	CABANA COURT MHP	10-19-84	1.000	2 + 1
4453...307807814	NICHOLSON W. S.	10 -3-84	3.000	3 + 1
4454...314913146	CANAK, CITY OF	10-12-84	1.000	



GEORGIA INSTITUTE OF TECHNOLOGY  
OFFICE OF INTERDISCIPLINARY PROGRAMS  
205 OLD CIVIL ENGINEERING BUILDING  
ATLANTA, GEORGIA 30332

ENVIRONMENTAL RESOURCES CENTER  
(404) 894-2375

BIOENGINEERING CENTER  
(404) 894-2375

DATE: December 14, 1984

TO: James Hardeman, Program Manager  
Environmental Radiation Program  
Environmental Protection Division, DNR

FROM: Bernd Kahn, Director  
Environmental Resources Center

SUBJECT: Monthly Report of Activities for the State by the  
Environmental Radiation Laboratory, November, 1984

---

The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental radionuclide monitoring at nuclear facilities by DNR staff	Table 1-16
Monitoring by DNR staff of Community Water Systems	Table 17
Environmental radiation monitoring at nuclear facilities	Table 18

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity that may be attributed to the facility:

Table 7--H-3 in surface water at the Farley nuclear plant.

Tables 13, 14, and 16--H-3 in milk, surface water and grass at the Savannah River Plant.

All other radionuclides in Tables 1-16 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables.

...

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Sample Types Analyzed in Month

<u>Sample Types</u>	<u>Analyzed in Month</u>
Community Water supplies	69
Nuclear facilities	365
Quality control - EPA	22
	<hr/>
Total	456

Table 1

Radioactivity Levels in Water Composites from  
the Environment of the Hatch Nuclear Plant

<u>Sample Nos.</u>	<u>Location</u>	<u>Dates collected</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
B1108, 1126	Sta #170	July, Aug., 1984	< 5	< 2
B1109, 1127	Sta #172	July, Aug., 1984	< 5	< 2

- 
- Notes: 1. Composites were prepared with equal amounts of each sample.  
2. Other results of analyses are given in previous monthly reports.

Table 3

**Radioactivity Levels in Quarterly Composite Air Filters  
from the Environment of the Hatch Nuclear Plant**

<u>Samples No.</u>	<u>Location</u>	<u>Dates, 1982</u>	<u>Volume, m3</u>	<u>Cs-137 concentration, fCi/m<sup>3</sup></u>
B1165* (1123,1146)	Substation	July-Sept.	9975	< 1
B1166* (1124,1147)	Dead River Rd.	July-Sept.	5097	< 2
B1167* (1125)	Plant Hatch	July-August	1865	< 10

- 
- Notes: 1. Two filters collected successively at the location (except that only one filter was available at Plant Hatch) were analyzed by gamma-ray spectrometry. See earlier reports for gross beta activity in individual filters and collection dates.
2. No other photon-emitting radionuclides were detected except naturally occurring Be-7.



Table 5

Radioactivity Levels in Fish Samples from the  
Environment of the Hatch Nuclear plant

<u>Sample No.</u>	<u>Location</u>	<u>Type</u>	<u>Dry wt/ Wet wt</u>	<u>H-3, pCi/l</u>	<u>Cs-137, pCi/kg</u>
B1170*	Station #170	American eel	0.40	in process	< 70
B1171*	Station # 172	Largemouth bass	0.22		500

- 
- Notes: 1. Samples were collected on November 13-14, 1984, by Georgia Power Company staff.  
2. No other man-made photon-emitting radionuclides were detected.

Table 6

Radioactivity Levels in Water Composites from the  
Environment in Georgia of the Farley Nuclear Plant

<u>Sample Nos.</u>	<u>Location</u>	<u>Dates collected</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
F799,812,828	Indicator	July, August, September, 1984	< 5	< 2
F800,813,829	Background	July, August, September, 1984	< 5	< 2

---

Notes: 1. Composites were prepared with equal amounts of each sample.  
2. Other results of analyses are given in previous monthly reports.

Table 7

Radioactivity Levels in Water Samples from the  
Environment in Georgia of the Farley Nuclear plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F837	Chattahoochee River Great Southern Paper Co.	< 2	4 $\pm$ 2	10,800 $\pm$ 300	-
F838*	Chattahoochee River WRI-M5-1084	< 3	3 $\pm$ 2	200 $\pm$ 200	< 0.5
F839*	Chattahoochee River WRB-M5-1084	2 $\pm$ 1	3 $\pm$ 2	<200	< 0.5

- 
- Notes: 1. Sample F837 was collected on October 29, 1984; samples F838-839 were collected during October, 1984 by Alabama Power Co. staff.
2. I-131 was calculated as of the final day of the collection period.
3. No man-made photon-emitting radionuclides were detected (Cs-137 <20 pCi/l).

Table 8

Radioactivity Levels in Milk Sample from the  
Environment in Georgia of the Farley Nuclear plant

Sample No.	Location	Cs-137, pCi/l	k, g/l	H-3, pCi/l	I-131, pCi/l
F 840*	MB-1110-M5 110584	< 10	1.9	<200	< 2

- 
- Notes: 1. Sample was collected on November 5, 1984 by Alabama  
Power Company staff.  
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 9

Radioactivity Levels in Grass Samples from the  
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt./ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>	
			<u>Cs-137</u>	<u>Be-7</u>
F 841	TLD # 1	0.29	< 70	1,600
F 842	TLD # 20	0.34	< 70	3,300

- 
- Notes: 1. Samples were collected on November 28, 1984.  
3. No other man-made photon-emitting radionuclides were detected.  
Be-7 is formed in nature.

Table 10

Radioactivity Levels in Water Samples from  
the Environment in Georgia of the Oconee Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>
LH 189	TLD # 3, surface	< 1	2 $\pm$ 1	< 200
LH 190	TLD #1, surface	< 1	< 2	< 200
LH 191	TLD # 9, surface	< 1	< 2	< 200

- 
- Notes: 1. Samples were collected on November 20, 1984.  
2. No man-made photon-emitting radionuclides were detected (Cs-137 <20 pCi/l).

Table 11

Radioactivity Levels in Grass Samples from the  
Environment in Georgia of the Oconee Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>	
			<u>Cs-137</u>	<u>Be-7</u>
LH 192	TLD #6	0.25	< 200	6,900
LH 193	TLD #3	0.24	< 100	5,100
LH 194	TLD #1	0.18	< 200	3,100
LH 195	TLD # 9	0.26	< 100	7,000

- Notes: 1. Samples were collected on November 20, 1984.  
2. No other man-made photon-emitting radionuclides were detected.  
Be-7 is formed in nature.

Table 12

Radioactivity Levels in Water Composites from the  
Environment in Georgia of the Savannah River Plant

<u>Sample Nos.</u>	<u>Location</u>	<u>Dates collected</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
SR1572, 1610, 1698	RM146.7	July, Aug., Sept., 1984	< 5	< 2
SR1573, 1611, 1699	RM150.4	July, Aug., Sept., 1984	< 5	< 2
SR1574, 1612, 1700	RM151.2	July, Aug., Sept., 1984	< 5	< 2
SR1575, 1613, 1702	Port Went- worth	July, Aug., Sept., 1984	< 5	< 2
SR1576, 1614, 1701	N. Augusta	July., Aug., Sept., 1984	< 5	< 2
SR1582, 1609, 1692,	I & D Water	July, Aug., Sept., 1984	< 5	< 2
SR1685	Hwy 301	Sept., 1984	< 5	< 2

- 
- Notes: 1. Composites were prepared with equal amounts of each sample.  
2. Other results of analyses are given in previous monthly reports.



Table 14

Radiocitivity Levels in Water Samples from  
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR1735	Savannah R., R-2	< 2	2 $\pm$ 2	< 200	< 2
SR1736	Savannah R., R-10	< 2	4 $\pm$ 2	4,000 $\pm$ 300	< 4
SR1737	TLD # 17, ground	< 2	3 $\pm$ 2	< 200	-----
SR1738	TLD # 1, ground	< 2	< 2	< 200	-----
SR1739	TLD #20, ground	< 2	5 $\pm$ 2	< 200	-----
SR1740	TLD #11, ground	5 $\pm$ 3	6 $\pm$ 2	< 200	-----
SR1741	TLD #17, surface	< 2	2 $\pm$ 2	4,500 $\pm$ 300	-----
SR1742	TLD # 11, surface	< 2	< 2	300 $\pm$ 200	-----
SR1743	TLD #15, surface	< 2	2 $\pm$ 2	1,700 $\pm$ 300	-----
SR1744	RLD # 20, surface	< 2	3 $\pm$ 2	3,900 $\pm$ 300	-----
SR1751	TLD #6, surface	< 2	2 $\pm$ 2	< 200	-----
SR1759	I & D Water Supply, Port Wentworth	< 2	4 $\pm$ 2	3,100 $\pm$ 200	< 0.6

Table 14 (cont)

SR1760	RM151.2	< 2	2 $\pm$ 1	700 $\pm$ 200	-----
SR1761	RM146.7	< 1	3 $\pm$ 2	2,600 $\pm$ 200	-----
SR1762	Port Wentworth, raw composite	< 1	3 $\pm$ 2	3,300 $\pm$ 200	-----
SR1763	N. Augusta raw composite	< 1	3 $\pm$ 2	300 $\pm$ 200	-----
SR1764	RM150.4	< 1	3 $\pm$ 1	700 $\pm$ 200	-----

- 
- Notes: 1. Samples SR1735-1736 were collected on October 30, 1984, by Savannah River Plant staff; samples SR1737-1744 and 1751 were collected on November 15, 1984; sample SR1759 was collected November 7-13, 1984; samples SR1760-1764 were collected October 8 - November 7, 1984, by Georgia Power Company staff.
2. I-131 was calculated as of the final day of the collection period.
3. No man-made photon-emitting radionuclides were detected in samples 1735-1736, 1741-1744, 1751, and 1759-1764.

Table 15

Radioactivity Levels in Air Samples from the  
Environment in Georgia of the Savannah River Plant

Sample No.	Sample type	Location	Volume, m <sup>3</sup>	Radionuclide concentration, pCi/m <sup>3</sup>		
				I-131	Gross alpha	beta
SR1745	Cartridge Paper filter	Hargrove Rd.	2645	<0.002 -----	----- <0.001	----- 0.002
SR1746	Cartridge Paper filter	Girard ..	1229	<0.002 -----	----- <0.001	----- 0.003
SR1747	Cartridge Paper filter	Simulator	2445	<0.002 -----	----- <0.001	----- 0.005
SR1748	Cartridge Paper filter	Augusta	2992	<0.002 -----	----- <0.001	----- 0.002
SR1749	Cartridge Paper filter	Waynesboro	2664	<0.002 -----	----- <0.001	----- 0.003
SR1750	Cartridge Paper filter	Welcome Ctr.	0	----- -----	----- -----	----- -----

- 
- Notes: 1. Samples were collected on November 15, 1984 after 50-day sampling.  
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 16

Radioactivity Levels in Grass Samples from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>H-3, pCi/l</u>	<u>Radionuclide concentration, pCi/kg</u>	
				<u>Cs-137</u>	<u>Be-7</u>
SR1752	TLD # 6	0.50	2,000 $\pm$ 300	< 70	2,000
SR1753	TLD # 10	0.23	6,500 $\pm$ 400	< 70	1,700
SR1754	TLD # 11	0.58	6,300 $\pm$ 200	< 70	1,900
SR1755	TLD # 8	0.54	1,800 $\pm$ 200	84	1,500
SR1756	TLD # 20	0.52	600 $\pm$ 300	< 70	960
SR1757	TLD # 1	0.42	800 $\pm$ 300	< 70	1,900
SR1758	TLD # 17	0.49	1,700 $\pm$ 300	170	4,000

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- Notes: 1. Samples were collected on November 15, 1984  
 2. No other man-made photon-emitting radionuclides were detected.  
 Be-7 is formed in nature.

Table 17

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8408 ... AUGUST 84 INCOMPLETE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
02327	4167 PINE FOREST SD	CHATHAM	7-17-84	8408	1.000	< 2			
02390	4168 PINWOOD MHP	CHATHAM	7-17-84	8408	1.000	< 2			
02150	4169 ESTILL HAMMOCK	CHATHAM	7-19-84	8408	1.000	< 2			
06617	4170 EUFORD	CWINNETT	7-25-84	8408	1.000	< 1			
24425	4171 BRIAR PATCH MHP	SUMTER	7-30-84	8408	1.000	< 1			
10389	4172 EIG CANOE	PICKENS	7-24-84	8408	4.003	1 + 1			
04225	4173 CLARKSTON	DEKALB	7-24-84	8408	1.000	< 1			
09952	4174 OAK ACRES WATER ASSN	GLYNN	7-31-84	8408	1.000	< 4			
01697	4175 TEMPLE	CARROLL	7-26-84	8408	1.000	< 2			
06007	4176 PALMETTO	FULTON	7-24-84	8408	1.000	< 2			
22565	4177 GLENN OF ROBIN HOOD	CHATHAM	7-25-84	8408	1.001	< 2			
04439	4178 CARVER SD	DOUGHERTY	7-25-84	8408	1.001	< 3			
00984	4179 CAPE HAROWICH	ERYAN	6-29-84	8408	1.000	< 2			
21665	4180 TWIN ACRES SD	THOMAS	7-17-84	8408	1.001	< 3			
20753	4181 TOWN & COUNTRY EST	THOMAS	5 -7-84	8408	1.001	6 + 2	2.0	< 1.0	
03112	4182 RIVERDALE	CLAYTON	7-24-84	8408	1.000	< 2			
14652	4183 WARNOCK'S TP	LAURENS	7-25-84	8408	1.000	< 3			
02442	4184 TALAHU LAKES ESTATES	CHATHAM	7-17-84	8408	1.000	< 3			
03743	4185 ADEL	COOK	7-26-84	8408	1.000	< 4			
06586	4186 WHITE PLAINS	GREENE	8 -2-84	8408	4.003	8 + 2	1.5	1.3	
00000	4187 COWETA CO		5-14-84	8408	0.000	1 + 1			
11310	4188 SOUTH HAMPTON MHP	SPALDING	12-29-83	8408	5.000	3 + 1			
11063	4189 ELLAVILLE	SCHLEY	10-27-82	8408	0.003	4 + 1	1.1		
26874	4190 SUNDOWN SD	FORSYTH	10-29-81	8408	0.005	3 + 1			
06809	4191 MT AIRY	HAEERSHAM	5-18-82	8408	0.004	< 1			
07621	4192 HODGESVILLE MHP	EFFINGHAM	10-13-81	8408	6.000	< 2			
18618	4193 DAVIS MHP	MONROE	12 -8-84	8408	3.000	62 + 4	3.8	1.5	66 + 5
18618	4194 DAVIS MHP	MONROE	2-10-83	8408	3.000	41 + 4	3.8	< 1.0	41 + 3
06293	4195 NEW HOPE PLANTATION	CLYNN	10 -1-82	8408	1.002	2 + 2			
23183	4196 MISSION TRACE SD	CAMDEN	4-15-81	8408	6.000	< 3			
04666	4197 ALAPAHA	FERRIEN	2-22-82	8408	3.000	5 + 2	7.6	1.2	
22954	4198 SHADY ACRES MHP	CHATHAM	8-12-81	8408	1.000	< 3			
16599	4199 SWEETRIAR MHP	COWETA	6-17-82	8408	0.000	< 2			
0292	4200 BARTOW CO	BARTOW	7-13-82	8408	0.000	2 + 1			
57471	4201 BOATRIGHIS TP	LONG	12-14-82	8408	1.000	< 3			
11262	4202 PENNETT'S MHP#2	FERRIEN	1-29-82	8408	0.000	2 + 1			
8275	4203 EAST DUBLIN	LAURENS	10 -7-82	8408	5.003	< 3			
5148	4204 PINE GROVE MHP	WAYNE	8 -5-82	8408	0.000	< 3			
4276	4205 B&P WATER WORKS	ERYAN	12-14-81	8408	0.000	< 2			
1160	4206 CLARKS MHP	BULLOCH	12 -1-82	8408	0.000	< 2			
5548	4207 WINDWARD ACRES	GLYNN	10-19-81	8408	0.000	< 3			
9576	4208 GREENVILLE	MERIWETHER	11-30-81	8408	0.000	8 + 2	0.4	1.5	
2024	4209 PINE FOREST SD	PUTNAM	1 -7-82	8408	6.003	5 + 2	0.4		
5543	4210 EULONIA COMMUNITY	MCINTOSH	8-14-84	8408	4.001	< 3			
5036	4211 MARLETTE HEIGHTS	HALL	8 -8-84	8408	4.000	< 2			
5917	4212 TOLBERT MHP	JACKSON	8-14-84	8408	4.003	3 + 1			
5149	4213 REED POULTRY	LINCOLN	8 -9-84	8408	4.001	< 1			
7338	4214 INDIAN HILLS ESTATES	GREENE	7-23-84	8408	4.001	11 + 2	0.5	1.3	
1477	4215 PINWOOD VILLAGE	HOUSTON	8 -8-84	8408	1.000	2 + 1			
777	4216 RINCON	EFFINGHAM	8 -8-84	8408	1.002	< 2			

## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8408 ... AUGUST 84 INCOMPLETE

#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
114297	4217	MOBILE WORLD	BIBB	8-15-84	8408	1.000	2 + 1			
500993	4218	LAKE LARRAINE	BRYAN	8 -7-84	8408	1.000	< 2			
012283	4219	SOPERTON	TREUTLEN	8-10-84	8408	1.000	2 + 2			
113920	4220	HAWAIIAN VILLAGE MHP	BIBB	8-15-84	8408	1.000	2 + 2			
607528	4221	CENTERVILLE	HOUSTON	8-15-84	8408	1.002	< 1			
206162	4222	MITCHELL	GLASCOCK	8 -9-84	8408	1.000	< 1			
117114	4223	VILLAGE MHP	APPLING	8 -7-84	8408	1.000	2 + 2			
722024	4224	PINE FOREST SD	PUTNAM	7-26-84	8408	1.000	2 + 1			
714155	4225	BIG M TP	DOUGHERTY	7-25-84	8408	1.001	< 2			
100658	4226	SHELTERING PINES MHP	BIBB	8 -3-84	8408	1.001	< 2			
514003	4227	MORGAN MHP	CHATHAM	8 -2-84	8408	1.000	< 2			
101560	4228	MACON HEALTH CARE	BIBB	7-31-84	8408	1.001	1 + 1			
114288	4229	CALLE VINAS SD	BIBB	7-31-84	8408	1.001	< 1			
515778	4230	COMMODORE POINT	CHATHAM	8 -8-84	8408	1.000	< 2			
501984	4231	GARDNER ESTATES	BRYAN	8-15-84	8408	1.000	< 2			
927247	4232	OAK HILL ESTATES	LIBERTY	8-16-84	8408	4.000	< 2			
715886	4233	LAURENS WATER CO INC	LAURENS	8 -8-84	8408	1.000	< 2			
201776	4234	TWIN OAKS MHP	CARROLL	8-24-84	8408	1.000	1 + 1			
421537	4235	BUCK CREEK ACRES MHP	SCREVEN	8 -1-84	8408	1.000	< 1			
100667	4236	BURCH GARDENS MHP	BIBB	8 -3-84	8408	1.000	< 2			
518251	4237	BLACK CREEK FARMS W	BRYAN	8-15-84	8408	1.000	< 2			
502196	4238	GRAYS SD	CHATHAM	8-15-84	8408	1.000	< 2			
502035	4239	GROVE HILL SD	CHATHAM	8 -2-84	8408	1.000	2 + 2			
522112	4240	MATHEWS MHP	CHATHAM	8 -7-84	8408	1.000	< 3			
909533	4241	SAPELO GARDENS SD	MCINTOSH	8-14-84	8408	1.000	< 3			
110729	4242	AUGUSTA	RICHMOND	8-10-84	8408	1.000	< 2			
210993	4243	MILSTEAD	ROCKDALE	8-10-84	8408	1.000	< 2			
420601	4244	BRINSON'S TP	SCREVEN	8 -1-84	8408	1.000	< 3			
710123	4245	PORTERDALE-BIBB MFG	NEWTON	8-10-84	8408	1.000	< 2			
319693	4246	YOUNGS ISLAND	MCINTOSH	8-14-84	8408	1.000	< 2			
313629	4247	IRWINTON	WILKINSON	7-29-83	8408	2.000	4 + 1			
125848	4248	FOXBOW FARMS NORTH	EFFINGHAM	3-27-84	8408	5.001	< 2			
111399	4249	SHOREWOOD ESTATES SD	STEPHENS	9-28-83	8408	5.000	16 + 3			
100475	4250	ENIGMA	BERRIEN	3-26-84	8408	2.002	3 + 2			
01063	4251	STATESBORO	BULLOCH	11-16-82	8408	5.007	< 3			
15120	4252	AVONDALE MHP	BIBB	2-20-84	8408	5.002	3 + 1			
24075	4253	SAVANNAH	CHATHAM	8-25-81	8408	2.026	< 3			
04124	4254	DAWSONVILLE	DAWSON	12 -8-83	8408	5.002	4 + 2			
10765	4255	RICHMOND CO	RICHMOND	12-19-83	8408	5.105	< 2			
26292	4256	NEWARK WATER SYS	THOMAS	1-19-84	8408	5.001	< 2			
05216	4257	DIX-LEE-ON ESTATES	FAYETTE	12-29-83	8408	5.006	< 2			
05776	4258	CANON	FRANKLIN	3 -5-84	8408	5.002	< 2			
11256	4259	SUMTER CO CI	SUMTER	1 -6-84	8408	5.002	< 2			
08104	4260	GRAY	JONES	3-13-84	8408	2.006	4 + 2			
16134	4261	BOWERSVILLE	HART	1 -9-84	8408	5.001	2 + 2			
41124	4262	DAWSONVILLE	DAWSON	3-10-83	8408	5.000	2 + 1			
3992	4263	GLENDALD SD	LEE	1-10-84	8408	5.001	< 3			
5645	4264	LADY WATER CO	FORSYTH	8 -5-83	8408	5.000	1 + 1			
1277	4265	CARLISLE SD	SPALDING	12-29-83	8408	5.000	< 2			
1936	4266	OAK RIDGE TP	TIFT	12 -6-83	8408	5.001	83 + 6			

## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8408 ... AUGUST 84 INCOMPLETE

#	SAMPLE VS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
523368	4267	COUNTRY CLUB HILLS	BULLOCH	1-4-84	8408	5.001	< 3			
923482	4268	ALCOVY SHORES	JASPER	3-31-83	8408	2.000	9 + 2			
023106	4269	WOODLAND VALLEY SD	HANCOCK	3-29-83	8408	5.000	4 + 2			
210361	4270	PICKENS CO WATER AU	PICKENS	3-15-84	8408	5.001	7 + 2			
603649	4271	GROVETOWN	COLUMBIA	11-9-82	8408	5.015	2 + 1			
125278	4272	LAKE TARA MHP	APPLING	3-28-84	8408	5.001	< 3			
025014	4273	SCENIC SHORES SD	HANCOCK	3-22-84	8408	5.002	24 + 6			
025185	4274	CEDAR LAKE ESTATES	CRISP	8-9-83	8408	5.001	< 2			
526760	4275	RIVERWOOD SD	THOMAS	3-22-84	8408	5.001	3 + 2			
608223	4276	LAKELAND	LANIER	12-15-83	8408	5.002	2 + 2			
734953	4277	SPRING VALLEY SD	NEWTON	3-16-84	8408	5.000	131 + 8			
926095	4278	OGDEN TP #2	LIBERTY	6-2-83	8408	5.002	2 + 1			
323801	4279	HOUSTON VALLEY	CATOOSA	1-9-84	8408	5.000	< 3			
525820	4280	JUBILEE PARTNERS	MADISON	3-8-84	8408	5.001	10 + 2			
608540	4281	FERNWOOD MHP	FAYETTE	12-29-83	8408	5.001	< 2			
802814	4282	CHEROKEE CO WS	CHEROKEE	11-21-83	8408	5.000	< 2			
408104	4283	GRAY	JONES	3-13-84	8408	2.002	< 2			
502275	4284	OGECHIEE FARMS SD	CHATHAM	1-31-84	8408	5.002	< 2			
408104	4285	GRAY	JONES	3-13-84	8408	2.005	< 3			
408104	4286	GRAY	JONES	3-13-84	8408	2.004	10 + 2			
023329	4287	MEADOW ROCK SD	CRISP	11-8-83	8408	5.002	< 2			
026018	4288	OMAR HEIGHTS SD	CRISP	11-8-83	8408	5.001	< 3			
10765	4289	RICHMOND CO WS	RICHMOND	12-19-83	8408	5.106	< 2			
04957	4290	GARFIELD	EMANUEL	11-3-83	8408	5.002	< 3			
22532	4291	HARRIS CO WS	HARRIS	1-27-84	8408	5.000	< 1			
24400	4292	KINGS HARBOR SD	FORSYTH	9-13-83	8408	5.000	< 2			
04124	4293	DAWSONVILLE	DAWSON	12-8-83	8408	5.001	7 + 3			
09859	4294	TARRYTOWN	MONTGOMERY	11-16-83	8408	5.002	< 3			
07951	4295	LOUISVILLE	JEFFERSON	1-16-84	8408	5.006	< 1			
08963	4296	FOXBOROUGH SD	LOWNDES	3-26-84	8408	5.002	< 3			
25092	4297	OGDEN MHP	LIBERTY	6-2-83	8408	5.001	< 3			
25014	4298	SCENIC SHORES SD	HANCOCK	3-22-84	8408	5.004	< 4			
16848	4299	LOOP 81 MHP	NEWTON	3-16-84	8408	2.000	2 + 2			
04993	4300	SKAINSBORO	EMANUEL	2-2-84	8408	5.009	< 2			
26026	4301	ASHURST ESTATES SD	LOWNDES	3-15-84	8408	2.001	< 3			
25254	4302	HIDDEN VILLAGE SD	LOWNDES	3-6-84	8408	2.001	< 2			
25014	4303	SCENIC SHORES SD	HANCOCK	3-22-84	8408	5.005	3 + 2			
07058	4304	SHADY GROVE TP	HALL	11-7-83	8408	5.003	< 1			
1879	4305	COUNTRY ACRES MHP	NEWTON	11-30-83	8408	5.000	2 + 2			
5820	4306	JUBILEE PARTNERS	MADISON	3-8-84	8408	5.002	< 2			
5194	4307	DOGWOOD HILLS SD	CRISP	11-8-83	8408	5.001	< 3			
8104	4308	GRAY	JONES	3-13-84	8408	2.001	6 + 2			
3656	4309	TOONSHORO	WILKINSON	8-31-83	8408	5.003	4 + 2			
3436	4310	SKYLAKE WATER SYS	WHITE	12-30-83	8408	5.004	2 + 2			

: TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8409 ... SEPTEMBER 84 INCOMPLETE

#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAP DATE	TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
127271	4311	JOE PHILLIPS MHP	LONG	8-23-84	8409	4.001	< 3			
554321	4312	BURROUGHS COMM.	CHATHAM	8-21-84	8409	4.001	< 3			
526220	4313	SCARBORO COVE SD	CHATHAM	8-21-84	8409	4.001	< 2			
918852	4321	WALTHOURVILLE, CITY	LIBERTY	8-24-84	8409	1.000	< 2			
704545	4314	PRETORIA ACRES	DOUGHERTY	8-27-84	8409	1.001	< 3			
114748	4315	SPRINGGROVE ACRES SD	WAYNE	8-30-84	8409	1.000	< 3			
500902	4316	RICHMOND HILL, CITY	BYRAN	8-22-84	8409	1.000	< 2			
3221087	4317	JONES COMM WATER ASN	MCINTOSH	8-27-84	8409	1.000	< 3			
534209	4318	SHUMAN TP	BYRAN	8-29-84	8409	1.000	< 3			
502002	4319	KEN'S MHP	BYRAN	8-29-84	8409	1.000	< 2			
112314	4320	WEST PT. WATER SYS	TROUP	8-30-84	8409	3.000	< 2			
507591	4322	WARNER ROBINS, CITY	HOUSTON	8-21-84	8409	1.000	< 2			
511933	4323	PAVO, CITY OF	THOMAS	8-28-84	8409	1.001	< 3			
013216	4324	SANDERSVILLE, CITY OF	WASHINGTON	8-30-84	8409	4.004	< 1			
101618	4325	MEYER, CITY OF	CANDLER	9-12-84	8409	1.000	4 + 2	3.7		
310401	4326	PATTERSON, CITY OF	PIERCE	9-12-84	8409	1.000	< 2			
908686	4327	ISLE OF WIGHT SD	LIBERTY	8-29-84	8409	1.000	< 2			
12445	4329	SYCAMORE, CITY OF	TURNER	8-28-84	8409	1.000	< 2			
501054	4330	REGISTER, TOWN OF	BULLOCH	9-12-84	8409	1.000	< 2			
503448	4331	FUNSTON, CITY OF	COLQUITT	8-29-84	8409	1.000	< 2			
04411	4328	BRONZE BELL TP	DOUGHERTY	8-21-84	8409	1.000	2 + 2			
23712	4332	POINT PETER LANDING	CLAY	8-28-84	8409	1.000	< 4			
14772	4333	BANKS MHP	LOWNDES	8-30-84	8409	1.000	< 2			
36678	4334	SUNNYHILL ACRES SD	THOMAS	8-6-84	8409	1.000	< 2			
21665	4335	TWIN ACRES SD	THOMAS	8-28-84	8409	1.000	< 3			
04387	4336	PUTNEY WATER SUPPLY	DOUGHERTY	8-21-84	8409	1.000	< 2			
23183	4337	MISSION TRACE	CAMDEN	8-28-84	8409	1.000	< 4			
07643	4338	HOLIDAY RIVIERA MHP	HOUSTON	9-4-84	8409	1.000	< 2			
07634	4339	GLEATON'S MHP	HOUSTON	9-11-84	8409	1.000	4 + 2	3.9		
16627	4340	LIVE OAK MHP	GLYNN	9-11-84	8409	1.000	2 + 2			
04554	4341	SANHORN TP	DOUGHERTY	8-27-84	8409	1.000	< 2			
01160	4342	CLARK'S MHP	BULLOCH	9-12-84	8409	1.000	< 2			
12574	4343	CHRIST CHURCH HOME	HOUSTON	9-11-84	8409	1.000	4 + 2	1.8		
53054	4344	PINE HILL ESTATES	COWETA	9-8-84	8409	4.000	< 2			
7247	4345	OAK HILL ESTATES	LIBERTY	9-11-84	8409	4.000	< 2			
3277	4346	ODUM, CITY OF	WAYNE	9-17-84	8409	4.002	4 + 2			
6793	4347	DEMOREST, CITY OF	HABERSHAM	9-14-84	8409	4.000	< 2			
6793	4348	DEMOREST, CITY OF	HABERSHAM	9-18-84	8409	4.000	< 2			
0475	4349	ENIGMA, CITY OF	BERRIEN	9-13-84	8409	3.000	9 + 2	2.0	< 1.0	
3761	4350	LENOX, TOWN OF	COCK	9-12-84	8409	1.000	2 + 2			
5346	4351	COLQUITT MEM. HOSP.	COLQUITT	9-17-84	8409	1.000	< 3			
0948	4352	BLACK CRK FARMS SD	BYRAN	8-29-84	8409	1.000	< 2			
3263	4353	EVANS TP #1	COFFEE	8-24-84	8409	1.000	4 + 1	2.0		
1078	4354	BRIAR PATCH WTR ASN	MCINTOSH	9-13-84	8409	1.000	< 2			
2460	4355	VICK'S MHP	CHATHAM	9-18-84	8409	1.000	< 2			
1167	4356	DENMARK TP	LIBERTY	9-4-84	8409	1.000	< 3			
426	4357	EVANS TP #2	COFFEE	8-24-84	8409	1.000	< 2			
747	4358	OCILLA, CITY OF	IRWIN	9-11-84	8409	1.000	< 1			
008	4359	SAVANNAH STATE COLL	CHATHAM	9-18-84	8409	1.000	< 2			
466	4360	ALAPAHA, CITY OF	BERRIEN	9-13-84	8409	3.000	17 + 2	10.3	< 1.0	< 2



RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8409 ... SEPTEMBER 84 INCOMPLETE

#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
502372	4361	RIVER OAKS SD	CHATHAM	9-19-84	8409	1.000	< 2			
506793	4362	DEMOREST, CITY OF	HABERSHAM	9-18-84	8409	4.000	< 2			
321430	4363	CANNON BLUFF WA	MCINTOSH	9-13-84	8409	1.000	< 3			
522954	4364	SHADY ACRES MHP	CHATHAM	9-19-84	8409	1.000	< 3			
506451	4365	JEKYLL ISLAND WA	GLYNN	8-29-81	8409	1.000	< 2			
936383	4366	BENNETT'S TP	LIBERTY	9-12-84	8409	1.000	< 2			
517792	4367	ENNIS MHP	CHATHAM	9-17-85	8409	1.000	< 2			
509506	4368	DARTEN, CITY OF	MCINTOSH	9-13-84	8409	1.000	< 3			
519310	4369	JOHN ALFORD SD	MCINTOSH	9-13-84	8409	1.000	< 3			
518537	4370	BETHESDA BOYS HOME	CHATHAM	9-18-84	8409	1.000	< 2			
502211	4371	HARBOR CREEK SD	CHATHAM	9-19-84	8409	1.000	< 2			
125169	4372	CEDAR CREEK MHP	LONG	9 -4-84	8409	1.000	< 2			
514228	4373	LAKEVIEW MHP	LIBERTY	9-12-84	8409	1.000	< 2			
500966	4374	BRYAN WOODS ESTATES	BRYAN	8-29-84	8409	1.000	< 2			
502057	4375	HOLLY TP	BRYAN	9 -7-84	8409	1.000	< 2			
502424	4376	SUBURB VILLAGE MHP	CHATHAM	9-19-84	8409	1.000	< 1			
506793	4377	DEMOREST, CITY OF	HABERSHAM	9-14-84	8409	4.000	< 2			
714607	4378	MALONE'S LAKE PARK	LAURENS	9 -4-84	8409	1.000	< 2			

ES: TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
13638	4379 IVEY, CITY OF	WILKINSON	9-26-84	8410	4.003	2 + 1			
05441	4380 COLONIAL CLUB EST.	FORSYTH	9-17-84	8410	4.003	< 2			
05819	4381 ROYSTON, CITY OF	FRANKLIN	8-24-84	8410	1.000	< 1			
10643	4382 RAB.GAP-NOOCHEE SCH	RABUN	8-17-84	8410	1.000	< 1			
17743	4383 PINE HILL MHP	TIFT	9-21-84	8410	3.000	95 + 5		< 1.0	
16548	4384 WINDWARD ACRES S/D	GLYNN	6-20-84	8410	1.000	< 2			
12021	4385 TY TY, TOWN OF	TIFT	9-21-84	8410	1.000	< 2			
08415	4386 MEADOWDALE MHP	LAURENS	9-18-84	8410	1.000	< 2			
17453	4387 PECAN HAVEN MHP	PEACH	9-21-84	8410	1.000	< 2			
13741	4388 WORTH CO. CORR. INST	WORTH	9-25-84	8410	1.000	< 2			
12030	4389 ABE BALDWIN AGR COLL	TIFT	9-21-84	8410	1.000	8 + 2		< 1.0	
25371	4390 CARNIGAN WATER ASSN	MCINTOSH	9-25-84	8410	1.000	< 2			
20460	4391 WOODLAND MHP	GLYNN	6-20-84	8410	1.000	< 2			
01541	4392 ST. MARY'S, CITY OF	CAMDEN	9-26-84	8410	1.000	< 2			
08555	4393 PLANTATION MHP	LEE	9-17-84	8410	1.000	< 2			
11915	4394 MEIGS, CITY OF	THOMAS	9-26-84	8410	1.000	< 3			
05146	4395 BROOKS, CITY OF	FAYETTE	9-15-84	8410	1.000	53 + 4		1.2	70 + 6
10444	4396 MOLENA, CITY OF	PIKE	8-23-84	8410	1.000	132 + 9		< 1.0	176 + 14
15846	4397 SEMINOLE MHP	CLARKE	9-13-84	8410	1.000	25 + 2			
05873	4398 BRITTANY HARBOR #2	FRANKLIN	9-18-84	8410	1.000	62 + 8			
03130	4399 ROYAL COURT MHP	CLAYTON	8-23-84	8410	1.000	24 + 2			
05146	4400 BROOKS, CITY OF	FAYETTE	8-15-84	8410	1.000	53 + 4			
15815	4401 CANE CREEK TP	LUMPKIN	8-2-84	8410	1.000	< 3			
10444	4402 MOLENA, CITY OF	PIKE	8-23-84	8410	1.000	106 + 4			
07003	4403 LANIER SAILING CLUB	HALL	9-30-84	8410	1.000	11 + 2			
10444	4404 MOLENA, CITY OF	PIKE	8-23-84	8410	1.000	122 + 6			
03130	4405 ROYAL COURT MHP	CLAYTON	8-23-84	8410	1.000	26 + 3		< 1.0	17 + 2
5815	4406 CANE CREEK TP	LUMPKIN	8-2-84	8410	1.000	< 2			
10444	4407 MOLENA, CITY OF	PIKE	8-23-84	8410	1.001	126 + 5			
5873	4408 BRITTANY HARBOR #2	FRANKLIN	9-18-84	8410	1.000	43 + 5		1.7	
5846	4409 SEMINOLE MHP	CLARKE	9-13-84	8410	1.000	24 + 2		< 1.0	
5873	4410 BRITTANY HARBOR #2	FRANKLIN	9-18-84	8410	1.000	52 + 5			
7003	4411 LANIER SAILING CLUB	HALL	9-30-84	8410	1.000	9 + 2		< 1.0	
8111	4412 COLONIAL EST. MHP#2	WAYNE	10-4-84	8410	1.000	2 + 1			
5501	4413 BRITTANY HARB. WEST	FRANKLIN	9-18-84	8410	3.000	9 + 2			
7653	4414 BRASKELL, CITY OF	PAULDING	10-4-84	8410	4.000	2 + 1			
1079	4415 HILIONIA, CITY OF	SCREVEN	9-26-84	8410	1.000	< 2			
8496	4416 GREEN ACRES MHP	SCREVEN	9-25-84	8410	1.000	< 2			
3112	4417 LAZY ACRES TP	WARE	10-4-84	8410	1.001	3 + 1			
277	4418 FO' ROBIN MHP	SCREVEN	9-25-84	8410	1.000	< 2			
341	4419 TUGALOO BAY	HART	9-18-84	8410	3.000	13 + 3			
0880	4420 MOBILE HOME C. CLUB	RICHMOND	9-26-84	8410	1.000	< 2			
427	4421 FERNWOOD MHP	BROOKS	9-18-84	8410	4.000	4 + 2			
391	4422 MEADOWBROCK MHP	NEWTON	10-10-84	8410	4.000	< 2			
018	4423 MOBILE HOME EST.	LOWNDES	9-27-84	8410	1.000	< 2			
067	4424 BAILEY MHP	TIFT	10-10-84	8410	1.000	2 + 2			
525	4425 LEE WATERS MHP	WAYNE	10-4-84	8410	1.000	< 3			
249	4426 COLONIAL EST. MHP #1	WAYNE	10-4-84	8410	1.000	< 2			
560	4427 EDGEWOOD MHP	JEFF DAVIS	9-27-84	8410	1.000	8 + 2			
035	4428 ALLMONDS TP	MONTGOMERY	10-3-84	8410	1.000	10 + 2			

## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8410 ... OCTOBER 84 INCOMPLETE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
37239	4429 PAYNE'S MHP	CHEROKEE	8-10-84	8410	1.000	< 2			
08284	4430 MODTROSE, CITY OF	LAURENS	10 -2-84	8410	1.000	3 + 1			
14063	4431 COLONIAL ACRES S/D	LEE	10 -5-84	8410	1.000	< 2			
03277	4432 FAIRWAYS VILLA MHP	COBB	8-10-84	8410	1.000	2 + 2			
14040	4433 OAKLAND MHP	CHEROKEE	8-10-84	8410	1.000	< 2			
19733	4434 CANAUGA SD	LEE	10 -5-84	8410	1.000	< 2			
10206	4435 MAXEYS, CITY OF	OGLETHORPE	10 -5-84	8410	6.002	29 + 3			
05511	4436 GREEN ACRES MOB EST	COLQUITT	10-10-84	8410	1.000	2 + 1			
09840	4437 MOUNT VERNON, CITY	MONIGOMERY	10 -3-84	8410	1.000	< 3			
14081	4438 COUNTRY VILLA SD	LEE	10-10-84	8410	1.000	< 2			
14273	4439 CR STANFORD APTS.	LIBERTY	10-17-84	8410	1.000	< 2			
25141	4440 NETHER MHP	WORTH	10-11-84	8410	1.000	< 3			
15048	4441 PLEASANT HILL MHP	WORTH	10-11-84	8410	1.000	< 2			
08500	4442 DIXON MHP	LEE	10-10-84	8410	1.000	< 2			
001323	4443 WALKER'S TP	BERRIEN	10-15-84	8410	1.000	< 2			
17336	4444 W D STANFORD MHP	LIBERTY	10-16-84	8410	1.000	< 2			
22750	4445 FOSS MHP	CHATHAM	10-15-84	8410	1.000	< 2			
109703	4446 CAMILLA, CITY OF	MITCHELL	10 -9-84	8410	1.000	< 2			
01027	4447 BROCKLET, CITY OF	BULLOCH	10-11-84	8410	1.000	< 3			
12979	4448 WARE CO. WATER SYST.	WARE	10 -4-84	8410	1.000	2 + 2			
124276	4449 MURRAY TP	WAYNE	10 -4-84	8410	1.000	< 2			
120899	4450 DANIEL VILLAGE MHP	CANDLER	10-11-84	8410	1.000	< 2			
02053	4451 AZALEA MHP	CHATHAM	10-15-84	8410	1.000	< 2			
06252	4452 CABANA COURT MHP	GLYNN	10-19-84	8410	1.000	2 + 1			
07814	4453 NICHOLSON W. S.	JACKSON	10 -3-84	8410	3.000	3 + 1			
13146	4454 CAMAK, CITY OF	WARREN	10-12-84	8410	1.000				

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: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8411 ... NOVEMBER 84 INCOMPLETE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
15012	4455 SADDLE BAGS MHP	LOWNDES	10-25-84	8411	1.000	2 + 1			
15137	4456 WRIGHTS TP	LOWNDES	10-18-84	8411	1.000	2 + 1			
13378	4457 GLENWOOD, CITY OF	WHEELER	10-30-84	8411	1.000	3 + 1			
22692	4458 NORWOOD, CITY OF	WARREN	10-30-84	8411	1.000	2 + 1			
08848	4459 GA CHRISTIAN SCHOOL	LOWNDES	10-29-84	8411	1.000	2 + 1			
04278	4460 ALBANY	DOUGHERTY	10-31-84	8411	1.000	< 1			
12198	4461 VIDALIA, CITY OF	TOOMBS	10-25-84	8411	1.000	3 + 1			
27450	4462 ANGLER'S COVE ASSEN	LIBERTY	10 0-84	8411	4.001	< 1			
15120	4463 AVONDALE MHP	BIBB	10-25-84	8411	1.000	3 + 1			
05785	4464 CARNESVILLE, CITY OF	FRANKLIN	10-31-84	8411	4.004	3 + 1			
08811	4465 LAKE PARK, CITY OF	LOWNDES	10-25-84	8411	1.000	< 1			
20799	4466 CIRCLE	THOMAS	10-29-84	8411	4.003	3 + 1			
17011	4467 RUNAWAY POINT S/D	CHATHAM	10-16-84	8411	1.000	< 2			
03335	4468 DOUGLASS, CITY OF	COFFEE	10-25-84	8411	1.000	4 + 1			
22556	4469 WHITE MARSH ISLAND	CHATHAM	10-16-84	8411	1.000	< 1			
13369	4470 ALAMO, CITY OF	WHEELER	10-30-84	8411	1.000				
02211	4471 HARBOR CREEK S/D	CHATHAM	10-26-84	8411	1.000	< 1			
14824	4472 MOUNIVILLE, CITY OF	TROUP	10 -5-84	8411	6.001	2 + 1			
08564	4473 GREENVIEW MHP	LEE	11 -2-84	8411	1.000	< 1			
05584	4474 SANDS MHP	COLQUITT	11 -5-84	8411	1.000	4 + 1			
14665	4475 WOODLAND LAKE S/D	LIBERTY	10-17-84	8411	1.000	< 1			
14533	4476 CANAL RD. MHP	GLYNN	10-23-84	8411	1.000	< 1			
08528	4477 LAKEVIEW MHP	LEE	11 -2-84	8411	1.000	< 1			
27876	4478 KEYRIDGE MHP	LEE	11 -2-84	8411	1.000	< 1			
15846	4479 SEMINOLE MHP	CLARKE	11 -6-84	8411	3.000	26 + 2			
11906	4480 COOLIDGE, CITY OF	THOMAS	11 -1-84	8411	1.000	4 + 2			
18001	4481 FORT MCINTOSH WIR S	BRANTLEY	10-25-84	8411	1.000	2 + 1			
8701	4482 LAKE GEORGE S/D	LIBERTY	10-17-84	8411	1.000	< 1			
8388	4483 RIVER END S/D	CHATHAM	10-16-84	8411	1.000	< 2			
2431	4484 THE BLUFF S/D	CHATHAM	10-23-84	8411	1.000	< 2			
2248	4485 THE LANDINGS S/D	CHATHAM	10-26-84	8411	1.000	< 2			
4824	4486 MOUNIVILLE, CITY OF	TROUP	11 -5-84	8411	6.000	4 + 1			
4824	4487 MOUNIVILLE, CITY OF	TROUP	11 -5-84	8411	4.003				
7909	4488 TURTLE COVE	JASPER	11 -1-84	8411	4.009	< 2			
3125	4489 BUTCH'S TP	PEACH	11 -8-84	8411	1.000	2 + 2			
7241	4490 ROSE CITY MHP	THOMAS	11 -9-84	8411	3.000	3 + 2			
1936	4491 OAK RIDGE TP	TIFT	11 -9-84	8411	6.000	19 + 3			
3557	4492 PINEY GROVE S/D	COLQUITT	11 -6-84	8411	1.000	< 2			
3936	4493 DAYLEY'S MHP	LOWNDES	11 -6-84	8411	1.000	< 2			
1985	4494 REGISTER MHP	LOWNDES	11 -6-84	8411	1.000	< 2			
216	4495 SANDERSVILLE, CITY OF	WASHINGTON	11-13-84	8411	4.004	2 + 2			
717	4496 FAWN HEIGHTS S/D	BROOKS	11 -8-84	8411	4.001	< 2			
1708	4497 BARBERRY HILLS S/D	FORSYTH	10-31-84	8411	4.003	9 + 2			
543	4498 EULONIA W.S.	MCINTOSH	10-13-84	8411	4.000	< 2			
130	4499 ROYAL COURT MHP	CLAYTON	11-16-84	8411	6.000				
519	4500 KINCHAFONNEE MHP	LEE	11 -5-84	8411	1.000	< 1			
30	4501 WHISPERING PINE EST		11 -9-84	8411	6.000				
723	4502 JONES MHP	GWINNETT	11-19-84	8411	4.002	2 + 2			
127	4503 ASHEURN, CITY OF	TURNER	11-15-84	8411	4.005	< 1			
###	4504 WINDY CREEK S/D		11-24-84	8411	4.002				

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8411 ... NOVEMBER 84 INCOMPLETE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
#####	4505 FAMILY LIFE ENR CENT		11-24-84	8411	4.002	< 1			
#####	4506 WINDY CREEK S/D		11-24-84	8411	4.001	1 + 1			
22718	4507 FAMILY LIFE ENR CENT	OCONEE	11-24-84	8411	4.001	3 + 1			

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: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

Exposure Rates at Nuclear Facilities  
Measured with TLD's

Table 18

LEY NUCLEAR PLANT ... 840918-841128 : 71 DAYS

TLD#	MR	MICRR/HR	MR/YR	
1.0 (+-)	17.3 1.9	10.2 1.1	89.2 10.0	... <> 95% NORMAL DIST.
2.0 (+-)	11.4 2.5	6.7 1.5	58.4 12.9	
3.0 (+-)	9.8 1.3	5.8 0.8	50.4 6.7	
4.0 (+-)	11.2 1.3	6.6 0.8	57.6 6.7	
5.0 (+-)	9.9 1.4	5.8 0.8	50.9 7.3	
6.0 (+-)	11.1 2.6	6.5 1.6	56.8 13.6	
7.0 (+-)	14.4 1.8	8.5 1.0	74.1 9.0	
8.0 (+-)	12.7 2.5	7.4 1.5	65.2 12.7	
9.0 (+-)	10.1 1.6	5.9 0.9	52.0 8.1	
10.0 (+-)	9.4 1.7	5.5 1.0	48.4 8.8	
11.0 (+-)	13.1 1.9	7.7 1.1	67.5 9.8	
12.0 (+-)	12.4 1.3	7.3 0.8	63.7 6.7	
13.0 (+-)	10.2 1.7	6.0 1.0	52.3 8.5	
14.0 (+-)	9.1 1.1	5.4 0.6	47.0 5.6	
15.0 (+-)	10.3 1.8	6.1 1.0	53.1 9.1	
16.0 (+-)	11.2 1.3	6.5 0.7	57.4 6.5	
17.0 (+-)	12.1 1.7	7.1 1.0	62.3 8.6	
18.0 (+-)	13.7 1.7	8.0 1.0	70.5 8.5	
19.0 (+-)	13.2 1.6	7.7 0.9	67.6 8.2	

20.0	12.0	7.0	61.5
(+-)	1.2	0.7	6.4

21.0	12.8	7.5	65.9
(+-)	1.5	0.9	7.6

22.0	12.7	7.4	65.2
(+-)	1.4	0.8	7.3

23.0	11.8	6.9	60.7
(+-)	1.3	0.8	6.9

24.0	14.3	8.4	73.6
(+-)	2.1	1.3	11.0

25.0	10.4	6.1	53.4
(+-)	1.7	1.0	8.6

26.0	9.7	5.7	49.9
(+-)	1.1	0.6	5.6

NET. AVG.:	11.8	6.9	60.6
(+-)	3.8	2.2	19.5

E POWER NUCLEAR PLANT OCONEE ... 840315 - 841121 : 251 DAYS

TLD#	MR	MICRR/HR	MR/YR
1.0	83.0	13.8	120.6
(+-)	8.6	1.4	12.4
2.0	82.7	13.7	120.3
(+-)	8.6	1.4	12.4
4.0	38.4	6.4	55.8
(+-)	4.7	0.8	6.8
5.0	50.8	8.4	73.9
(+-)	5.1	0.8	7.4
6.0	53.5	8.9	77.8
(+-)	5.5	0.9	8.1
7.0	59.2	9.8	86.1
(+-)	6.1	1.0	8.9
9.0	69.6	11.6	101.3
(+-)	8.5	1.4	12.4
NET. AVG.:	62.5	10.4	90.8
(+-)	33.5	5.6	48.8



TE BACKGROUND FOR DUKE POWER NUCLEAR PLANT OCONEE ...  
 315 - 841121 : 251 DAYS

TLD#	MR	MICRR/HR	MR/YR
19.0	72.7	12.1	105.7
(+-)	7.3	1.2	10.6
20.0	59.3	9.8	86.2
(+-)	6.8	1.1	9.8
21.0	45.1	7.5	65.5
(+-)	5.1	0.8	7.4
NET. AVG.:	59.0	9.8	85.8
(+-)	27.6	4.6	40.2

20.0	12.7	7.4	65.2
(+-)	1.8	1.0	9.0

21.0	11.3	6.6	58.2
(+-)	1.7	1.0	8.5

22.0	10.9	6.4	56.0
(+-)	1.2	0.7	6.2

23.0	17.5	10.2	89.7
(+-)	1.8	1.1	9.4

... <> 95% NORMAL DIST.

24.0	11.5	6.7	59.0
(+-)	1.4	0.8	7.3

NET. AVG.:	12.3	7.2	63.0
(+-)	3.4	2.0	17.4

ANNAH RIVER PLANT ... 840905 - 841115 : 71 DAYS

TLD#	MR	MICRR/HR	MR/YR
1.0	11.7	6.9	60.1
(+-)	2.0	1.2	10.5
2.0	13.2	7.7	67.8
(+-)	1.6	0.9	8.3
3.0	14.3	8.4	73.7
(+-)	1.6	0.9	8.1
4.0	13.9	8.1	71.3
(+-)	1.6	0.9	8.0
5.0	13.0	7.7	67.0
(+-)	1.9	1.1	9.9
7.0	12.3	7.2	63.5
(+-)	1.4	0.8	7.1
8.0	10.2	6.0	52.3
(+-)	1.2	0.7	6.2
9.0	11.8	6.9	60.6
(+-)	1.5	0.9	7.6
12.0	10.9	6.4	56.1
(+-)	1.4	0.8	6.9
13.0	10.9	6.4	56.2
(+-)	1.5	0.9	7.9
14.0	11.4	6.7	58.6
(+-)	2.0	1.2	10.4
15.0	13.1	7.7	67.2
(+-)	2.2	1.3	11.3
16.0	10.1	5.9	51.9
(+-)	1.3	0.8	6.9
17.0	11.7	6.9	60.3
(+-)	1.4	0.8	7.2
19.0	12.8	7.5	65.8
(+-)	1.4	0.8	7.4

TE BACKGROUND FOR SAVANNAH RIVER PLANT ... 840905 - 841115 : 71 DAYS

TLD#	MR	MICRR/HR	MR/YR
1.0	21.7	12.7	111.4
(+-)	2.5	1.5	12.9
2.0	10.6	6.2	54.2
(+-)	1.4	0.8	7.2
3.0	14.6	8.6	75.0
(+-)	1.8	1.1	9.4
NET. AVC.:	15.6	9.2	80.2
(+-)	11.3	6.6	57.9



GEORGIA INSTITUTE OF TECHNOLOGY  
OFFICE OF INTERDISCIPLINARY PROGRAMS  
205 OLD CIVIL ENGINEERING BUILDING  
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ENVIRONMENTAL RESOURCES CENTER  
(404) 894-2375

BIOENGINEERING CENTER  
(404) 894-2375

DATE: January 14, 1985

TO: James Hardeman, Program Manager  
Environmental Radiation Program  
Environmental Protection Division, DNR

FROM: Bernd Kahn, Director  
Environmental Resources Center

SUBJECT: Monthly Report of Activities for the State by the  
Environmental Radiation Laboratory, December, 1984

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The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental radionuclide monitoring at nuclear facilities by DNR staff	Table 1-12
Monitoring by DNR staff of Community Water Systems	Table 13

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity that may be attributed to the facility:

Tables 7, 8, 11, and 12--H-3 in milk, surface water and grass at the Savannah River Plant.

All other radionuclides in Tables 1-12 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables.

In Table 11 are reported H-3 results for duplicate samples submitted by SRP as cross-checks. Some differences remain between SRP and our analyses, hence this program will be continued until all differences are resolved.

Radioactivity results for community water supplies, compiled in Table 13, include partial data for samples WS4167-4552.

Elevated radium levels ( $> 5$  pCi/l) were found in the following:

WS 4360	Alapaha
WS 4383	Pine Hill MHP
WS 4408	Brittany Harbor #2
WS 4409	Seminole MHP
WS 4413	Brittany Harbor West

Analyses of samples WS4227 - 4310 cannot be continued until additional samples are delivered from storage. Results for community water supplies are reported in a different form this month due to computer difficulties.

The types of samples and number of each that were analyzed are summarized in the following two tables.

## Number of Samples Analyzed in Month

[illegible]

Sample Type Analyzed in Month

<u>Sample Types</u>	<u>Analyzed in Month</u>
Community water supplies	87
Nuclear facilities	185
Quality control - EPA	17
Total	<u>289</u>



Table 1

Radioactivity Levels in Water Samples from  
the Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha,, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B 1172*	Sta # 170	< 2	6 ± 2	< 200	< 0.8
B 1173*	Sta # 172	< 2	2 ± 2	< 200	< 1

- 
- Notes:
1. Samples were collected October 24 - November 28, by Georgia Power Co. staff.
  2. I-131 was calculated as of the final day of the collection period.
  3. No man-made photon-emitting radionuclides were detected in these samples. (Cs-137 <20 pCi.l).

Table 2

Radioactivity Levels in Air Samples from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m<sup>3</sup></u>	<u>Radionuclide concen- tration, pCi/m<sup>3</sup></u>	
				<u>I-131</u>	<u>Gross beta</u>
B 1174*	Cartridge	Dead River Rd.	3113	<0.003	-----
	Paper filter			-----	0.015
B 1175*	Cartridge	Plant Hatch	2823	<0.003	-----
	Paper filter			-----	0.013
B 1176*	Cartridge	Substation	5177	<0.003	-----
	Paper filter			-----	0.007

- 
- Notes: 1. Samples were collected on November 27, 1984 after 43-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 3

Radioactivity Levels in Water Samples from  
the Environment in Georgia of the Farley Nuclear Plant

<u>Sample No</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F 843	TLD # 12, surface	< 2	< 2	< 200	-----
F 844	TLD # 20, surface	< 2	3 ± 2	< 200	-----
F 851*	Chattahoochee R. WRB-M5-1184	< 2	2 ± 2	300±200	< 0.7
F 852*	Chattahoochee R. WRI-M5-1184	< 2	2 ± 2	< 200	< 1
F 853	Chattahoochee R. Great Southern Paper	< 2	2 ± 2	< 200	-----

- 
- Notes: 1. Samples F 843 - 844 were collected on November 28, 1984; samples F851-852 were collected during November, 1984, by Alabama Power Co.; sample F853 was collected on October 29 - November 30, 1984.
2. I-131 was calculated as of the final day of the collection period.
3. No man-made photon-emitting radionuclides were detected in these samples (Cs-137 <20 pCi/l).

Table 4

Radioactivity Levels in Milk Sample from the  
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F 845*	MB-1110-M5 121784	< 10	1.7	< 400	< 1

- 
- Notes: 1. Sample was collected on December 17, 1984, by Alabama Power Co. staff.  
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 5

Radioactivity Levels of Fish from the Environment  
in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Type</u>	<u>Location</u>	<u>Wet wt/ Dry wt.</u>	<u>H-3, pCi/l</u>	<u>Cs-137, pCi/kg</u>
F 846	carp-edible	FBB-S5	0.28	In process	< 90
	carp-inedible	101684	0.32		< 90
F 847	bass-edible	FGB-S5	0.26	In process	120
	bass-inedible	101684	0.24		< 90
F 848	carp-edible	FBI-S5	0.29	In process	50
	carp-inedible	101684	0.36		< 90
F 849	bass-edible	FGI-S5	0.25	In process	140
	bass-inedible	101684	0.29		40

- 
- Notes: 1. Samples were collected on October 16, 1984, by Alabama Power Company staff.  
2. No other man-made photon-emitting radionuclides were detected.

Table 6

Radioactivity Levels in Air Sample from the  
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m<sup>3</sup></u>	<u>Radionuclide concen- tration, pCi/m<sup>3</sup></u>	
				<u>I-131</u>	<u>Gross beta</u>
F 850*	Cartridge Paper filter	Great Southern Paper Co.	4307	<0.004 -----	----- 0.010

- 
1. Sample was collected on November 30, 1984 after 32-day sampling.
  2. No other man-made photon-emitting radionuclides were detected in the cartridge.

Table 7

Radioactivity Levels in Milk Samples from  
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 1765	Girard	< 6	1.8	400+200	< 0.4
SR 1766	Gracewood	< 10	2.1	1000+200	< 0.6
SR 1767	Waynesboro	< 6	1.8	200+200	< 0.5

- 
- Notes: 1. Samples were collected on November 29, 1984, by Savannah River Plant staff.  
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 8

Radioactivity Levels in Water Samples from  
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Inches Rainfall</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 1768	Savannah R.	-----	< 2	2 ± 2	< 200	< 2
SR 1769	Savannah R. R-10	-----	< 2	2 ± 2	3,500±300	< 2
SR 1782	Girard, rain	3.3	< 2	2 ± 2	1,300±300	-----
SR 1783	GPC simulator, rain	3.6	< 2	2 ± 2	4,600±300	-----
SR 1784	Welcome sta., rain	3.6	< 2	2 ± 2	< 200	-----
SR 1785	Augusta, rain	2.3	< 2	< 3	< 200	-----
SR 1786	Waynesboro, rain	3.0	< 2	< 3	700±300	-----
SR 1787	Savannah R. Hwy 301	2.3	< 2	2 ± 2	< 200	< 7
SR 1788	Hargrove Rd., rain	3.3	< 2	< 3	4,200±300	-----
SR 1790	I & D Water Supply, Port Wentworth	-----	< 2	3 ± 2	3,300±300	-----
SR 1796	RM 146.7	-----	< 2	2 ± 2	2,500±300	-----
SR 1797	RM 151.2	-----	< 1	< 2	900±300	-----
SR 1798	N. Augusta raw composite	-----	< 2	< 3	400±300	-----
SR 1799	RM 150.4	-----	< 2	< 3	700±300	-----
SR 1800	Port Wentworth raw composite	-----	< 2	3 ± 2	3,700±300	-----

1. Samples SR1768-1769 were collected on November 19, 1984, by Savannah River Plant staff; samples SR1782-1788 were collected November 11-29, 1984; sample SR1790 was collected December 5-11, 1984; samples SR1796-1800 were collected November 7-December 4, 1984 by Georgia Power Co. staff.
2. There is no sample SR1789.
3. I-131 was calculated as of the final day of the collection period.
4. No man-made photon-emitting radionuclides were detected in samples SR1768-9, 1787, 1790, and 1796-1800 (Cs-137 <20 pCi/l).



Table 9

Radioactivity Levels in Fish from the Environment  
in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Type</u>	<u>Location</u>	<u>Dry wt./ Wet wt.</u>	<u>H-3, pCi/l</u>	<u>Cs-137, pCi/kg</u>
SR 1770	channel bass-edible	RM 20	0.23	In process	160
	channel bass-inedible		0.22		< 100
SR 1771	saltwater catfish-edible	RM 10	0.28	In process	< 80
	saltwater catfish-inedible		0.33		< 100
SR 1773	largemouth bass-edible*	RM 31	0.27	In process	400
	largemouth bass-inedible		0.24		230
SR 1774	spotted sucker-edible	RM 31	0.29	In process	240
	spotted sucker-inedible		0.38		120

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Notes: 1. Samples were collected on September 26, 1984.

Table 10

Radioactivity Levels in Air Samples from the  
Environment in Georgia of the Savannah River Plant

Sample No.	Sample type	Location	Volume, m <sup>3</sup>	Radionuclide concen- tration, pCi/m <sup>3</sup>		
				I-131	Gross alpha	beta
SR 1772	Cartridge Paper filter	Augusta	688	<0.01 -----	----- <0.001	----- 0.005
SR 1775	Cartridge Paper filter	Girard	1223	<0.01 -----	----- <0.001	----- 0.003
SR 1776	Cartridge Paper filter	Welcome Ctr.	408	<0.03 -----	----- <0.001	----- 0.009
SR 1777	Cartridge Paper filter	Hargrove Rd.	1834	<0.01 -----	----- <0.001	----- 0.003
SR 1778	Cartridge Paper filter	Simulator	1036	<0.01 -----	----- <0.001	----- 0.003
SR 1779	Cartridge Paper filter	Waynesboro	799	<0.01 -----	----- <0.001	----- 0.004

- Notes: 1. Samples were collected on November 29, 1984, after 14-day sampling.  
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 11

Results of Intercomparison Samples  
from the Savannah River Plant

<u>Sample No.</u>	<u>Type</u>	<u>Location</u>	<u>Corresponding Sample No.</u>	<u>H-3, pCi/l</u>
SR 1780	distillate from milk	Girard	SR 1715	2,000+400
SR 1781	distillate from milk	Girard	unknown	700+300
SR 1791	milk	Waynesboro	SR 1732	600+300
SR 1792	milk	Gracewood	SR 1733	<300
SR 1793	milk	Girard	SR 1734	<300
SR 1794	milk	Waynesboro	SR 1714	700+300
SR 1795	milk	Gracewood	SR 1713	600+300

Table 12

Radioactivity Levels in Grass Samples from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>H-3, pCi/l</u>	<u>Radionuclide concentration, pCi/kg</u>	
				<u>Cs-137</u>	<u>Be-7</u>
SR 1801	Hancock Landing	0.39	10,100±400	< 100	2,800
SR 1802	Waynesboro	0.32	5,000±300	< 60	7,900
SR 1803	Simulator Sta.	0.44	10,700±400	140	1,500

- Notes: 1. Samples were collected on December 18, 1984.  
2. No other man-made photon-emitting radionuclides were detected.  
Be-7 is formed in nature.

Table 13

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8408 ... AUGUST 1984 INCOMPLETE

#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
502327	4167	PINE FOREST SD	CHATHAM	7-17-84	8408	1.000	< 2			
502390	4168	PINEWOOD MHP	CHATHAM	7-17-84	8408	1.000	< 2			
502150	4169	ESTILL HAMMOCK	CHATHAM	7-19-84	8408	1.000	< 2			
706617	4170	EUFORD	GWINNETT	7-25-84	8408	1.000	< 1			
324425	4171	BRIAR PATCH MHP	SUMTER	7-30-84	8408	1.000	< 1			
210389	4172	EIG CANOE	PICKENS	7-24-84	8408	4.003	1 + 1			
104225	4173	CLARKSTON	DEKALB	7-24-84	8408	1.000	< 1			
309952	4174	OAK ACRES WATER ASSN	GLYNN	7-31-84	8408	1.000	< 4			
201697	4175	TEMPLE	CARROLL	7-26-84	8408	1.000	< 2			
006007	4176	PALMETTO	FULTON	7-24-84	8408	1.000	< 2			
522565	4177	GLENN OF ROBIN HOOD	CHATHAM	7-25-84	8408	1.001	< 2			
704439	4178	CARVER SD	DOUGHERTY	7-25-84	8408	1.001	< 3			
500984	4179	CAPE HAROWICH	BRYAN	6-29-84	8408	1.000	< 2			
521665	4180	TWIN ACRES SD	THOMAS	7-17-84	8408	1.001	< 3			
520753	4181	TOWN & COUNTRY EST	THOMAS	5-7-84	8408	1.001	6 + 2	2.0	< 1.0	
103112	4182	RIVERDALE	CLAYTON	7-24-84	8408	1.000	< 2			
714652	4183	WARNOCK'S TP	LAURENS	7-25-84	8408	1.000	< 3			
502442	4184	TALAHU LAKES ESTATES	CHATHAM	7-17-84	8408	1.000	< 3			
703743	4185	ADEL	COOK	7-26-84	8408	1.000	< 4			
506586	4186	WHITE PLAINS	GREENE	8-2-84	8408	4.003	8 + 2	1.5	1.3	
000000	4187	COWETA CO		5-14-84	8408	0.000	1 + 1			
511310	4188	SOUTH HAMPTON MHP	SPALDING	12-29-83	8408	5.000	3 + 1			
511063	4189	ELLAVILLE	SCHLEY	10-27-82	8408	0.003	4 + 1	1.1		
326874	4190	SUNDOWN SD	FORSYTH	10-29-81	8408	0.005	3 + 1			
306809	4191	MT AIRY	HABERSHAM	5-18-82	8408	0.004	< 1			
107621	4192	HODGESVILLE MHP	EFFINGHAM	10-13-81	8408	6.000	< 2			
18618	4193	DAVIS MHP	MONROE	12-8-84	8408	3.000	62 + 4	3.8	1.5	66 + 5
18618	4194	DAVIS MHP	MONROE	2-10-83	8408	3.000	41 + 4	3.8	< 1.0	41 + 3
06293	4195	NEW HOPE PLANTATION	GLYNN	10-1-82	8408	1.002	2 + 2			
23183	4196	MISSION TRACE SD	CAMDEN	4-15-81	8408	6.000	< 3			
00466	4197	ALAPAHA	BERRIEN	2-22-82	8408	3.000	5 + 2	7.6	1.2	
22954	4198	SHADY ACRES MHP	CHATHAM	8-12-81	8408	1.000	< 3			
16599	4199	SWEETRIAR MHP	COWETA	6-17-82	8408	0.000	< 2			
00292	4200	BARTOW CO	BARTOW	7-13-82	8408	0.000	2 + 1			
37471	4201	BOATRIGHIS TP	LONG	12-14-82	8408	1.000	< 3			
01262	4202	BENNETT'S MHP#2	BERRIEN	1-29-82	8408	0.000	2 + 1			
08275	4203	EAST DUBLIN	LAURENS	10-7-82	8408	5.003	< 3			
25148	4204	PINE GROVE MHP	WAYNE	8-5-82	8408	0.000	< 3			
24276	4205	E&B WATER WORKS	BRYAN	12-14-81	8408	0.000	< 2			
01160	4206	CLARKS MHP	BULLOCH	12-1-82	8408	0.000	< 2			
16548	4207	WINDWARD ACRES	GLYNN	10-19-81	8408	0.000	< 3			
09576	4208	GREENVILLE	MERIWETHER	11-30-81	8408	0.000	8 + 2	0.4	1.5	
22024	4209	PINE FOREST SD	FUTNAM	1-7-82	8408	6.003	5 + 2	0.4		
76543	4210	EULONIA COMMUNITY	MCINTOSH	8-14-84	8408	4.001	< 3			
6036	4211	MARLETTE HEIGHTS	HALL	8-8-84	8408	4.000	< 2			
6917	4212	TOLBERT MHP	JACKSON	8-14-84	8408	4.003	3 + 1			
5149	4213	REED POULTRY	LINCOLN	8-9-84	8408	4.001	< 1			
7738	4214	INDIAN HILLS ESTATES	GREENE	7-23-84	8408	4.001	11 + 2	0.5	1.3	
2477	4215	PINEWOOD VILLAGE	HOUSTON	8-8-84	8408	1.000	2 + 1			
4777	4216	RINCON	EFFINGHAM	8-8-84	8408	1.002	< 2			

: TYPE 0,5-1ST COMPOSITE ; 2-REPEAT COMPOSITE ; 1-REPEAT SINGLE ; 3-REPEAT QUARTERLY ; 4-NEW SCREEN ; 6-OTHER

: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8408 ... AUGUST 1984 INCOMPLETE

#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
114297	4217	MOBILE WORLD	BIBB	8-15-84	8408	1.000	2 + 1			
500993	4218	LAKE LARRAINE	BRYAN	8 -7-84	8408	1.000	< 2			
012283	4219	SOPERTON	TREUTLEN	8-10-84	8408	1.000	2 + 2			
113920	4220	HAWAIIAN VILLAGE MHP	BIBB	8-15-84	8408	1.000	2 + 2			
507528	4221	CENTERVILLE	HOUSTON	8-15-84	8408	1.002	< 1			
206162	4222	MITCHELL	GLASCOCK	8 -9-84	8408	1.000	< 1			
117114	4223	VILLAGE MHP	APPLING	8 -7-84	8408	1.000	2 + 2			
722024	4224	PINE FOREST SD	PUTNAM	7-26-84	8408	1.000	2 + 1			
714155	4225	EIG M TP	DOUGHERTY	7-25-84	8408	1.001	< 2			
100658	4226	SHELTERING PINES MHP	BIBB	8 -3-84	8408	1.001	< 2			
514003	4227	MORGAN MHP	CHATHAM	8 -2-84	8408	1.000	< 2			
101560	4228	MACON HEALTH CARE	BIBB	7-31-84	8408	1.001	1 + 1			
114288	4229	CALLE VINAS SD	BIBB	7-31-84	8408	1.001	< 1			
515778	4230	COMMODORE POINT	CHATHAM	8 -8-84	8408	1.000	< 2			
501984	4231	GARDNER ESTATES	BRYAN	8-15-84	8408	1.000	< 2			
927247	4232	OAK HILL ESTATES	LIBERTY	8-16-84	8408	4.000	< 2			
715886	4233	LAURENS WATER CO INC	LAURENS	8 -8-84	8408	1.000	< 2			
201776	4234	TWIN OAKS MHP	CARROLL	8-24-84	8408	1.000	1 + 1			
421537	4235	BUCK CREEK ACRES MHP	SCREVEN	8 -1-84	8408	1.000	< 1			
100667	4236	BURCH GARDENS MHP	BIBB	8 -3-84	8408	1.000	< 2			
518251	4237	BLACK CREEK FARMS W	BRYAN	8-15-84	8408	1.000	< 2			
502196	4238	GRAYS SD	CHATHAM	8-15-84	8408	1.000	< 2			
502035	4239	GROVE HILL SD	CHATHAM	8 -2-84	8408	1.000	2 + 2			
522112	4240	MATHEWS MHP	CHATHAM	8 -7-84	8408	1.000	< 3			
309533	4241	SAPELO GARDENS SD	MCINTOSH	8-14-84	8408	1.000	< 3			
110729	4242	AUGUSTA	RICHMOND	8-10-84	8408	1.000	< 2			
110993	4243	MILSTEAD	ROCKDALE	8-10-84	8408	1.000	< 2			
20601	4244	BRINSON'S TP	SCREVEN	8 -1-84	8408	1.000	< 3			
10123	4245	PORTERDALE-BIBB MFG	NEWTON	8-10-84	8408	1.000	< 2			
119693	4246	YOUNGS ISLAND	MCINTOSH	8-14-84	8408	1.000	< 2			
13629	4247	IRWINTON	WILKINSON	7-29-83	8408	2.000	4 + 1			
25848	4248	FOXHAW FARMS NORTH	EFFINGHAM	3-27-84	8408	5.001	< 2			
11399	4249	SHOREWOOD ESTATES SD	STEPHENS	9-28-83	8408	5.000	16 + 3			
00475	4250	ENIGMA	HERRIEN	3-26-84	8408	2.002	3 + 2			
11063	4251	STATESBORO	BULLOCH	11-16-82	8408	5.007	< 3			
15120	4252	AVONDALE MHP	BIBB	2-20-84	8408	5.002	3 + 1			
24075	4253	SAVANNAH	CHATHAM	8-25-81	8408	2.026	< 3			
41124	4254	DAWSONVILLE	DAWSON	12 -8-83	8408	5.002	4 + 2			
10765	4255	RICHMOND CO	RICHMOND	12-19-83	8408	5.105	< 2			
6292	4256	NEWARK WATER SYS	THOMAS	1-19-84	8408	5.001	< 2			
5216	4257	DIX-LEE-ON ESTATES	FAYETTE	12-29-83	8408	5.006	< 2			
5776	4258	CANON	FRANKLIN	3 -5-84	8408	5.002	< 2			
1256	4259	SUMTER CO CI	SUMTER	1 -6-84	8408	5.002	< 2			
8104	4260	GRAY	JONES	3-13-84	8408	2.006	4 + 2			
5134	4261	BOWERSVILLE	HART	1 -9-84	8408	5.001	2 + 2			
41124	4262	DAWSONVILLE	DAWSON	3-10-83	8408	5.000	2 + 1			
3992	4263	GLENDALE SD	LEE	1-10-84	8408	5.001	< 3			
3645	4264	LADY WATER CO	FORSYTH	8 -5-83	8408	5.000	1 + 1			
1277	4265	CARLISLE SD	SPALDING	12-29-83	8408	5.000	< 2			
1936	4266	OAK RIDGE TP	TIFT	12 -6-83	8408	5.001	83 + 6			

TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8408 ... AUGUST 1984 INCOMPLETE

#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
523368	4267	COUNTRY CLUB HILLS	BULLOCH	1-4-84	8408	5.001	< 3			
523482	4268	ALCOVY SHORES	JASPER	3-31-83	8408	2.000	9 + 2			
523106	4269	WOODLAND VALLEY SD	HANCOCK	3-29-83	8408	5.000	4 + 2			
5210361	4270	PICKENS CO WATER AU	PICKENS	3-15-84	8408	5.001	7 + 2			
5203649	4271	GROVETOWN	COLUMBIA	11-9-82	8408	5.015	2 + 1			
525278	4272	LAKE TARA MHP	APPLING	3-28-84	8408	5.001	< 3			
525014	4273	SCENIC SHORES SD	HANCOCK	3-22-84	8408	5.002	24 + 6			
525185	4274	CEDAR LAKE ESTATES	CRISP	8-9-83	8408	5.001	< 2			
526760	4275	RIVERWOOD SD	THOMAS	3-22-84	8408	5.001	3 + 2			
5208223	4276	LAKELAND	LANIER	12-15-83	8408	5.002	2 + 2			
5234953	4277	SPRING VALLEY SD	NEWTON	3-16-84	8408	5.000	131 + 8			
5226095	4278	OGDEN TP #2	LIBERTY	6-2-83	8408	5.002	2 + 1			
5233801	4279	HOUSTON VALLEY	CATOOSA	1-9-84	8408	5.000	< 3			
5252820	4280	JUBILEE PARTNERS	MADISON	3-8-84	8408	5.001	10 + 2			
5208540	4281	FERNWOOD MHP	FAYETTE	12-29-83	8408	5.001	< 2			
5202814	4282	CHEROKEE CO WS	CHEROKEE	11-21-83	8408	5.000	< 2			
5208104	4283	GRAY	JONES	3-13-84	8408	2.002	< 2			
5202275	4284	OGEECHEE FARMS SD	CHATHAM	1-31-84	8408	5.002	< 2			
5208104	4285	GRAY	JONES	3-13-84	8408	2.005	< 3			
5208104	4286	GRAY	JONES	3-13-84	8408	2.004	10 + 2			
5223329	4287	MEADOW ROCK SD	CRISP	11-8-83	8408	5.002	< 2			
5226018	4288	OWAR HEIGHTS SD	CRISP	11-8-83	8408	5.001	< 3			
52110765	4289	RICHMOND CO WS	RICHMOND	12-19-83	8408	5.106	< 2			
5204957	4290	GARFIELD	EMANUEL	11-3-83	8408	5.002	< 3			
5222532	4291	HARRIS CO WS	HARRIS	1-27-84	8408	5.000	< 1			
5224400	4292	KINGS HARBOR SD	FORSYTH	9-13-83	8408	5.000	< 2			
5204124	4293	DAWSONVILLE	DAWSON	12-8-83	8408	5.001	7 + 3			
5209859	4294	TARRYTOWN	MONTGOMERY	11-16-83	8408	5.002	< 3			
5207951	4295	LOUISVILLE	JEFFERSON	1-16-84	8408	5.006	< 1			
5208963	4296	FOXBOROUGH SD	LOWNDES	3-26-84	8408	5.002	< 3			
525092	4297	OGDEN MHP	LIBERTY	6-2-83	8408	5.001	< 3			
525014	4298	SCENIC SHORES SD	HANCOCK	3-22-84	8408	5.004	< 4			
5216848	4299	LOOP 81 MHP	NEWTON	3-16-84	8408	2.000	2 + 2			
5204993	4300	SWAINSBORO	EMANUEL	2-2-84	8408	5.009	< 2			
526026	4301	ASHURST ESTATES SD	LOWNDES	3-15-84	8408	2.001	< 3			
525254	4302	HIDDEN VILLAGE SD	LOWNDES	3-6-84	8408	2.001	< 2			
525014	4303	SCENIC SHORES SD	HANCOCK	3-22-84	8408	5.005	3 + 2			
5207058	4304	SHADY GROVE TP	HALL	11-7-83	8408	5.003	< 1			
521879	4305	COUNTRY ACRES MHP	NEWTON	11-30-83	8408	5.000	2 + 2			
525820	4306	JUBILEE PARTNERS	MADISON	3-8-84	8408	5.002	< 2			
525194	4307	DOGWOOD HILLS SD	CRISP	11-8-83	8408	5.001	< 3			
528104	4308	GRAY	JONES	3-13-84	8408	2.001	6 + 2			
523656	4309	TOONSBORO	WILKINSON	8-31-83	8408	5.003	4 + 2			
523436	4310	SKYLAKE WATER SYS	WHITE	12-30-83	8408	5.004	2 + 2			

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## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8409 ... SEPTEMBER 1984 INCOMPLETE

#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
127271	4311	JOE PHILLIPS MHP	LONG	8-23-84	8409	4.001	< 3			
554321	4312	BURROUGHS COMM.	CHATHAM	8-21-84	8409	4.001	< 3			
526220	4313	SCARBORO COVE SD	CHATHAM	8-21-84	8409	4.001	< 2			
918852	4321	WALTHOURVILLE, CITY	LIBERTY	8-24-84	8409	1.000	< 2			
704545	4314	PRETORIA ACRES	DOUGHERTY	8-27-84	8409	1.001	< 3			
114748	4315	SPRINGGROVE ACRES SD	WAYNE	8-30-84	8409	1.000	< 3			
500902	4316	RICHMOND HILL, CITY	RYAN	8-22-84	8409	1.000	< 2			
821087	4317	JONES COMM WATER ASN	MCINTOSH	8-27-84	8409	1.000	< 3			
534209	4318	SHUMAN TP	RYAN	8-29-84	8409	1.000	< 3			
502002	4319	KEN'S MHP	RYAN	8-29-84	8409	1.000	< 2			
112314	4320	WEST PT. WATER SYS	TROUP	8-30-84	8409	3.000	< 2			
607591	4322	WARNER ROBINS, CITY	HOUSTON	8-21-84	8409	1.000	< 2			
611933	4323	PAVO, CITY OF	THOMAS	8-28-84	8409	1.001	< 3			
013216	4324	SANDERSVILLE, CITY OF	WASHINGTON	8-30-84	8409	4.004	< 1			
101618	4325	METTER, CITY OF	CANDLER	9-12-84	8409	1.000	4 + 2	3.7	< 1.0	
310401	4326	PATTERSON, CITY OF	PIERCE	9-12-84	8409	1.000	< 2			
908686	4327	ISLE OF WIGHT SD	LIBERTY	8-29-84	8409	1.000	< 2			
212445	4329	SYCAMORE, CITY OF	TURNER	8-28-84	8409	1.000	< 2			
601054	4330	REGISTER, TOWN OF	BULLOCH	9-12-84	8409	1.000	< 2			
503448	4331	FUNSTON, CITY OF	COLQUITT	8-29-84	8409	1.000	< 2			
704411	4328	BRONZE BELL TP	DOUGHERTY	8-21-84	8409	1.000	2 + 2			
0023712	4332	POINT PETER LANDING	CLAY	8-28-84	8409	1.000	< 4			
214772	4333	BANKS MHP	LOWNDES	8-30-84	8409	1.000	< 2			
636678	4334	SUNNYHILL ACRES SD	THOMAS	8-6-84	8409	1.000	< 2			
621665	4335	TWIN ACRES SD	THOMAS	8-28-84	8409	1.000	< 3			
704387	4336	PUINEY WATER SUPPLY	DOUGHERTY	8-21-84	8409	1.000	< 2			
023183	4337	MISSION TRACE	CAMDEN	8-28-84	8409	1.000	< 4			
607643	4338	HOLIDAY RIVIERA MHP	HOUSTON	9-4-84	8409	1.000	< 2			
607634	4339	GLEATON'S MHP	HOUSTON	9-11-84	8409	1.000	4 + 2	3.9		
616627	4340	LIVE OAK MHP	GLYNN	9-11-84	8409	1.000	2 + 2			
704554	4341	SANHORN TP	DOUGHERTY	8-27-84	8409	1.000	< 2			
601160	4342	CLARK'S MHP	BULLOCH	9-12-84	8409	1.000	< 2			
612574	4343	CHRIST CHURCH HOME	HOUSTON	9-11-84	8409	1.000	4 + 2	1.8		
633054	4344	PINE HILL ESTATES	COWETA	9-8-84	8409	4.000	< 2			
27247	4345	OAK HILL ESTATES	LIBERTY	9-11-84	8409	4.000	< 2			
13277	4346	ODUM, CITY OF	WAYNE	9-17-84	8409	4.002	4 + 2	1.8		
08793	4347	DEMOREST, CITY OF	HABERSHAM	9-14-84	8409	4.000	< 2			
08793	4348	DEMOREST, CITY OF	HABERSHAM	9-18-84	8409	4.000	< 2			
00475	4349	ENIGMA, CITY OF	BERRIEN	9-13-84	8409	3.000	9 + 2	2.0	< 1.0	
03761	4350	LENOX, TOWN OF	COCK	9-12-84	8409	1.000	2 + 2			
15346	4351	COLQUITT MEM. HOSP.	COLQUITT	9-17-84	8409	1.000	< 3			
00948	4352	BLACK CRK FARMS SD	RYAN	8-29-84	8409	1.000	< 2			
23263	4353	EVANS TP #1	COFFEE	8-24-84	8409	1.000	4 + 1	2.0		
21078	4354	BRIAR PATCH WTR ASN	MCINTOSH	9-13-84	8409	1.000	< 2			
02460	4355	VICK'S MHP	CHATHAM	9-18-84	8409	1.000	< 2			
14167	4356	DENMARK TP	LIBERTY	9-4-84	8409	1.000	< 3			
05426	4357	EVANS TP #2	COFFEE	8-24-84	8409	1.000	< 2			
07747	4358	OCTILA, CITY OF	IRWIN	9-11-84	8409	1.000	< 1			
02008	4359	SAVANNAH STATE COLL	CHATHAM	9-18-84	8409	1.000	< 2			
00466	4360	ALAPAHA, CITY OF	BERRIEN	9-13-84	8409	3.000	17 + 2	10.3	< 1.0	< 2

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RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8409 ... SEPTEMBER 1984 INCOMPLETE

	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
502372	4361	RIVER OAKS SD	CHATHAM	9-19-84	8409	1.000	< 2			
806793	4362	DEMOREST, CITY OF	HABERSHAM	9-18-84	8409	4.000	< 2			
821430	4363	CANNON BLUFF WA	MCINTOSH	9-13-84	8409	1.000	< 3			
522954	4364	SHADY ACRES MHP	CHATHAM	9-19-84	8409	1.000	< 3			
806451	4365	JEKYLL ISLAND WA	GLYNN	8-29-81	8409	1.000	< 2			
936383	4366	BENNETT'S TP	LIBERTY	9-12-84	8409	1.000	< 2			
517792	4367	ENNIS MHP	CHATHAM	9-17-85	8409	1.000	< 2			
809506	4368	DARIEN, CITY OF	MCINTOSH	9-13-84	8409	1.000	< 3			
819310	4369	JOHN ALFORD SD	MCINTOSH	9-13-84	8409	1.000	< 3			
518537	4370	BETHESDA BOYS HOME	CHATHAM	9-18-84	8409	1.000	< 2			
502211	4371	HARBOR CREEK SD	CHATHAM	9-19-84	8409	1.000	< 2			
125169	4372	CEDAR CREEK MHP	LONG	9 -4-84	8409	1.000	< 2			
714228	4373	LAKEVIEW MHP	LIBERTY	9-12-84	8409	1.000	< 2			
500966	4374	RYAN WOODS ESTATES	RYAN •	8-29-84	8409	1.000	< 2			
502057	4375	HOLLY TP	RYAN	9 -7-84	8409	1.000	< 2			
502424	4376	SUBURB VILLAGE MHP	CHATHAM	9-19-84	8409	1.000	< 1			
806793	4377	DEMOREST, CITY OF	HABERSHAM	9-14-84	8409	4.000	< 2			
714607	4378	MALONE'S LAKE PARK	LAURENS	9 -4-84	8409	1.000	< 2			

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RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8410 ... OCTOBER 1984 INCOMPLETE

	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
313638	4379	IVEY, CITY OF	WILKINSON	9-26-84	8410	4.003	2 + 1			
805441	4380	COLONIAL CLUB EST.	FORSYTH	9-17-84	8410	4.003	< 2			
905819	4381	ROYSTON, CITY OF	FRANKLIN	8-24-84	8410	1.000	< 1			
910643	4382	RAB.GAP-MOOCHEE SCH	RABUN	8-17-84	8410	1.000	< 1			
717743	4383	PINE HILL MHP	TIFT	9-21-84	8410	3.000	95 + 5	15.1	< 1.0	
316548	4384	WINDWARD ACRES S/D	GLYNN	6-20-84	8410	1.000	< 2			
712021	4385	TY TY, TOWN OF	TIFT	9-21-84	8410	1.000	< 2			
708415	4386	MEADOWDALE MHP	LAURENS	9-18-84	8410	1.000	< 2			
117453	4387	PECAN HAVEN MHP	PEACH	9-21-84	8410	1.000	< 2			
913741	4388	WORTH CO. CORR. INST	WORTH	9-25-84	8410	1.000	< 2			
712030	4389	ABE BALDWIN AGR COLL	TIFT	9-21-84	8410	1.000	8 + 2	1.9	< 1.0	
825371	4390	CARNIGAN WATER ASSN	MCINTOSH	9-25-84	8410	1.000	< 2			
820460	4391	WOODLAND MHP	GLYNN	6-20-84	8410	1.000	< 2			
001541	4392	ST. MARY'S, CITY OF	CAMDEN	9-26-84	8410	1.000	< 2			
808555	4393	PLANTATION MHP	LEE	9-17-84	8410	1.000	< 2			
511915	4394	MEIGS, CITY OF	THOMAS	9-26-84	8410	1.000	< 3			
505146	4395	BROCKS, CITY OF	FAYETTE	9-15-84	8410	1.000	53 + 4	1.0	1.2	70 + 6
410444	4396	MOLENA, CITY OF	PIKE	8-23-84	8410	1.000	132 + 9	0.5	< 1.0	176 + 14
915846	4397	SEMINOLE MHP	CLARKE	9-13-84	8410	1.000	25 + 2	NA		
905873	4398	BRITTANY HARBOR #2	FRANKLIN	9-18-84	8410	1.000	62 + 8	NA		
103130	4399	ROYAL COURT MHP	CLAYTON	8-23-84	8410	1.000	24 + 2	NA		
505146	4400	BROCKS, CITY OF	FAYETTE	8-15-84	8410	1.000	53 + 4	NA		
315815	4401	CANE CREEK TP	LUMPKIN	8-2-84	8410	1.000	< 3			
410444	4402	MOLENA, CITY OF	PIKE	8-23-84	8410	1.000	106 + 4	NA		
907003	4403	LANIER SAILING CLUB	HALL	9-30-84	8410	1.000	11 + 2	NA		
410444	4404	MOLENA, CITY OF	PIKE	8-23-84	8410	1.000	122 + 6	NA		
103130	4405	ROYAL COURT MHP	CLAYTON	8-23-84	8410	1.000	26 + 3	1.4	< 1.0	17 + 2
315815	4406	CANE CREEK TP	LUMPKIN	8-2-84	8410	1.000	< 2			
410444	4407	MOLENA, CITY OF	PIKE	8-23-84	8410	1.001	126 + 5	NA		
905873	4408	BRITTANY HARBOR #2	FRANKLIN	9-18-84	8410	1.000	43 + 5	12.8	1.7	
15846	4409	SEMINOLE MHP	CLARKE	9-13-84	8410	1.000	24 + 2	7.0	< 1.0	
905873	4410	BRITTANY HARBOR #2	FRANKLIN	9-18-84	8410	1.000	52 + 5	NA		
07003	4411	LANIER SAILING CLUB	HALL	9-30-84	8410	1.000	9 + 2	< 0.1	< 1.0	
18111	4412	COLONIAL EST. MHP#2	WAYNE	10-4-84	8410	1.000	2 + 1			
16501	4413	BRITTANY HARB. WEST	FRANKLIN	9-18-84	8410	3.000	9 + 2	2.5	6.1	
27653	4414	BRASWELL, CITY OF	PAULDING	10-4-84	8410	4.000	2 + 1			
11079	4415	HILTONIA, CITY OF	SCREVEN	9-26-84	8410	1.000	< 2			
18496	4416	GREEN ACRES MHP	SCREVEN	9-25-84	8410	1.000	< 2			
13112	4417	LAZY ACRES TP	WARE	10-4-84	8410	1.001	3 + 1			
34277	4418	PO' ROBIN MHP	SCREVEN	9-25-84	8410	1.000	< 2			
77341	4419	TUGALOO EAY	HART	9-18-84	8410	3.000	13 + 3	1.3		
10880	4420	MOBILE HOME C. CLUB	RICHMOND	9-26-84	8410	1.000	< 2			
7427	4421	FERNWOOD MHP	BROCKS	9-18-84	8410	4.000	4 + 2	4.5		
77391	4422	MEADOWROCK MHP	NEWTON	10-10-84	8410	4.000	< 2			
9018	4423	MOBILE HOME EST.	LOWNDES	9-27-84	8410	1.000	< 2			
2067	4424	BAILEY MHP	TIFT	10-10-84	8410	1.000	2 + 2			
8625	4425	LEE WATERS MHP	WAYNE	10-4-84	8410	1.000	< 3			
4249	4426	COLONIAL EST. MHP #1	WAYNE	10-4-84	8410	1.000	< 2			
7560	4427	EDGEWOOD MHP	JEFF DAVIS	9-27-84	8410	1.000	8 + 2	1.2		
7035	4428	ALMONDS TP	MONTGOMERY	10-3-84	8410	1.000	10 + 2			

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RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8410 ... OCTOBER 1984 INCOMPLETE

#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
337239	4429	PAYNE'S MHP	CHEROKEE	8-10-84	8410	1.000	< 2			
708284	4430	MODTROSE, CITY OF	LAURENS	10 -2-84	8410	1.000	3 + 1			
814063	4431	COLONIAL ACRES S/D	LEE	10 -5-84	8410	1.000	< 2			
803277	4432	FAIRWAYS VILLA MHP	COBB	8-10-84	8410	1.000	2 + 2			
814040	4433	OAKLAND MHP	CHEROKEE	8-10-84	8410	1.000	< 2			
819733	4434	CANAUGA SD	LEE	10 -5-84	8410	1.000	< 2			
910206	4435	MAXEYS, CITY OF	OGLETHORPE	10 -5-84	8410	6.002	29 + 3			
505511	4436	GREEN ACRES MOB EST	COLQUITT	10-10-84	8410	1.000	2 + 1			
809840	4437	MOUNT VERNON, CITY	MONTGOMERY	10 -3-84	8410	1.000	< 3			
814081	4438	COUNTRY VILLA SD	LEE	10-10-84	8410	1.000	< 2			
814273	4439	CR STANFORD APTS.	LIBERTY	10-17-84	8410	1.000	< 2			
825141	4440	NEIHER MHP	WORTH	10-11-84	8410	1.000	< 3			
815048	4441	PLEASANT HILL MHP	WORTH	10-11-84	8410	1.000	< 2			
808500	4442	DIXON MHP	LEE	10-10-84	8410	1.000	< 2			
001323	4443	WALKER'S TP	BERRIEN	10-15-84	8410	1.000	< 2			
817336	4444	W D STANFORD MHP	LIBERTY	10-16-84	8410	1.000	< 2			
522750	4445	FOSS MHP	CHATHAM	10-15-84	8410	1.000	< 2			
109703	4446	CAMILLA, CITY OF	MITCHELL	10 -9-84	8410	1.000	< 2			
501027	4447	BROOKLET, CITY OF	BULLOCH	10-11-84	8410	1.000	< 3			
812979	4448	WARE CO. WATER SYST.	WARE	10 -4-84	8410	1.000	2 + 2			
124276	4449	MURRAY TP	WAYNE	10 -4-84	8410	1.000	< 2			
120899	4450	DANIEL VILLAGE MHP	CANDLER	10-11-84	8410	1.000	< 2			
502053	4451	AZALEA MHP	CHATHAM	10-15-84	8410	1.000	< 2			
806252	4452	CABANA COURT MHP	GLYNN	10-19-84	8410	1.000	2 + 1			
807814	4453	NICHOLSON W. S.	JACKSON	10 -3-84	8410	3.000	3 + 1			
813146	4454	CAMAK, CITY OF	WARREN	10-12-84	8410	1.000	28 + 3			

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: Instructed by EPD to do no further analyses.

## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8411 ... NOVEMBER 1984 INCOMPLETE

#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
215012	4455	SADDLE BAGS MHP	LOWNDES	10-25-84	8411	1.000	2 + 1			
215137	4456	WRIGHTS TP	LOWNDES	10-18-84	8411	1.000	2 + 1			
313378	4457	GLENWOOD, CITY OF	WHEELER	10-30-84	8411	1.000	3 + 1			
922692	4458	NORWOOD, CITY OF	WARREN	10-30-84	8411	1.000	2 + 1			
208848	4459	GA CHRISTIAN SCHOOL	LOWNDES	10-29-84	8411	1.000	2 + 1			
704278	4460	ALBANY	DOUGHERTY	10-31-84	8411	1.000	< 1			
812198	4461	VIDALIA, CITY OF	TOOMES	10-25-84	8411	1.000	3 + 1			
927450	4462	ANGLER'S COVE ASSN	LIBERTY	10 0-84	8411	4.001	< 1			
115120	4463	AVONDALE MHP	ELIBB	10-25-84	8411	1.000	3 + 1			
905785	4464	CARNESVILLE, CITY OF	FRANKLIN	10-31-84	8411	4.004	3 + 1			
208811	4465	LAKE PARK, CITY OF	LOWNDES	10-25-84	8411	1.000	< 1			
520799	4466	CIRCLE	THOMAS	10-29-84	8411	4.003	3 + 1			
517011	4467	RUNAWAY POINT S/D	CHATHAM	10-16-84	8411	1.000	< 2			
403335	4468	DOUGLASS, CITY OF	COFFEE	10-25-84	8411	1.000	4 + 1			
522556	4469	WHITE MARSH ISLAND	CHATHAM	10-16-84	8411	1.000	< 1			
313369	4470	ALAMO, CITY OF	WHEELER	10-30-84	8411	1.000				
502211	4471	HARBOR CREEK S/D	CHATHAM	10-26-84	8411	1.000	< 1			
114824	4472	MOUNTVILLE, CITY OF	TROUP	10 -5-84	8411	6.001	2 + 1			
808564	4473	GREENVIEW MHP	LEE	11 -2-84	8411	1.000	< 1			
505584	4474	SANDS MHP	COLQUITT	11 -5-84	8411	1.000	4 + 1			
914665	4475	WOODLAND LAKE S/D	LIBERTY	10-17-84	8411	1.000	< 1			
314533	4476	CANAL RD. MHP	GLYNN	10-23-84	8411	1.000	< 1			
808528	4477	LAKEVIEW MHP	LEE	11 -2-84	8411	1.000	< 1			
827876	4478	KEYRIDGE MHP	LEE	11 -2-84	8411	1.000	< 1			
915846	4479	SEMINOLE MHP	CLARKE	11 -6-84	8411	3.000	26 + 2			
511906	4480	COOLIDGE, CITY OF	THOMAS	11 -1-84	8411	1.000	4 + 2			
901801	4481	FORT MCINTOSH WTR S	BRANLEY	10-25-84	8411	1.000	2 + 1			
908701	4482	LAKE GEORGE S/D	LIBERTY	10-17-84	8411	1.000	< 1			
518388	4483	RIVER BEND S/D	CHATHAM	10-16-84	8411	1.000	< 2			
902431	4484	THE BLUFF S/D	CHATHAM	10-23-84	8411	1.000	< 2			
902248	4485	THE LANDINGS S/D	CHATHAM	10-26-84	8411	1.000	< 2			
14824	4486	MOUNTVILLE, CITY OF	TROUP	11 -5-84	8411	6.000	4 + 1			
14824	4487	MOUNTVILLE, CITY OF	TROUP	11 -5-84	8411	4.003				
907909	4488	TURILE COVE	JASPER	11 -1-84	8411	4.009	< 2			
18125	4489	BUTCH'S TP	PEACH	11 -8-84	8411	1.000	2 + 2			
117241	4490	ROSE CITY MHP	THOMAS	11 -9-84	8411	3.000	3 + 2			
21577	4491	WHISPERING PINE EST	TIFT	11 -9-84	8411	6.000	19 + 3			
905557	4492	PINEY GROVE S/D	COLQUITT	11 -6-84	8411	1.000	< 2			
908936	4493	DAYLEY'S MHP	LOWNDES	11 -6-84	8411	1.000	< 2			
14985	4494	REGISTER MHP	LOWNDES	11 -6-84	8411	1.000	< 2			
13216	4495	SANDERSVILLE, CITY OF	WASHINGTON	11-13-84	8411	4.004	2 + 2			
907717	4496	FAWN HEIGHTS S/D	BROOKS	11 -8-84	8411	4.001	< 2			
16708	4497	BARREFFY HILLS S/D	FORSYTH	10-31-84	8411	4.003	9 + 2			
16543	4498	EULONIA W.S.	MCINTOSH	10-13-84	8411	4.000	< 2			
3130	4499	ROYAL COURT MHP	CLAYTON	11-16-84	8411	6.000				
8519	4500	KINCHAFONEE MHP	LEE	11 -5-84	8411	1.000	< 1			
1936	4501	OAK RIDGE TP	TIFT	11 -9-84	8411	6.000				
6723	4502	JONES MHP	GWINNETT	11-19-84	8411	4.002	2 + 2			
2427	4503	ASHBURN, CITY OF	TURNER	11-15-84	8411	4.005	< 1			
####	4504	WINDY CREEK S/D		11-24-84	8411	4.002				

TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8411 ... NOVEMBER 1984 INCOMPLETE

#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
#####	4505	FAMILY LIFE ENR CENT		11-24-84	8411	4.002	< 1			
#####	4506	WINDY CREEK S/D		11-24-84	8411	4.001	1 + 1			
322718	4507	FAMILY LIFE ENR CENT	OCONEE	11-24-84	8411	4.001	3 + 1			

ES: TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8412 ... DECEMBER 1984 INCOMPLETE

#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
007927	4508	HAZLEHURST, CITY OF	JEFF DAVIS	11-26-84	8412	4.001				
727762	4509	PLANTATION ACRES MHP	MCDUFFIE	11-16-84	8412	4.000	< 1			
833744	4510	ELDER HEIGHTS	COONEE	11-27-84	8412	4.002	< 1			
918852	4511	WALTHOURVILLE, CITY	LIBERTY	11-27-84	8412	4.002	< 1			
408104	4512	GRAY, CITY OF	JONES	11-26-84	8412	4.008	16 + 2			
408104	4513	GRAY, CITY OF	JONES	11-16-84	8412	4.009				
808616	4514	LEE CO. CORR. INST.	LEE	11-14-84	8412	1.000	< 1			
127382	4515	MOBILE MANOR ESTATE	PEACH	11-16-84	8412	1.000	< 2			
503649	4516	GROVETOWN, CITY OF	COLUMBIA	11-19-84	8412	1.000	2 + 1			
721980	4517	SANDY PINES MHP	LAURENS	11-20-84	8412	1.000	< 1			
808467	4518	LEESBURG, CITY OF	LEE	11-27-84	8412	1.000	< 1			
720510	4519	TIFT AREA MHP	TIFT	11-14-84	8412	1.000	2 + 2			
808591	4520	LEE HIGH ACRES S/D	LEE	11-27-84	8412	1.000	< 1			
735354	4521	SPRING VALLEY S/D	NEWTON	8-14-84	8412	1.000				
804158	4522	ATTAPULGUS, CITY OF	DECATUR	11-20-84	8412	3.001	13 + 2			
712137	4523	WILSON'S MHP	TIFT	11-14-84	8412	1.000	< 1			
221845	4524	BARRETS MHP	LOWNDES	11-13-84	8412	1.000	< 1			
121056	4525	ROLLING HILLS MHP	PEACH	11-19-84	8412	1.000	< 1			
209072	4526	RIVER PARK	LOWNDES	10-16-84	8412	1.000	4 + 1			
822510	4527	M & T WATER WORKS	TOOMES	11-27-84	8412	6.000	12 + 2			
521683	4528	PERELE HILL PLANT.	THOMAS	11-27-84	8412	1.000	4 + 2			
714643	4529	ROUNTREE'S MHP	LAURENS	11-20-84	8412	1.000	< 1			
808537	4530	LEE ESTATES	LEE	11-28-84	8412	1.000				
804158	4531	ATTAPULGUS, CITY OF	DECATUR	11-20-84	8412	3.000	27 + 3			
519833	4532	MEADOW HAVEN MHP	HOUSTON	11-27-84	8412	6.000				
512771	4533	LAFAYETTE, CITY OF	WALKER	12 -4-84	8412	0.000	< 1			
723675	4534	DE LAIGLE MHP	BURKE	12 -3-84	8412	4.003	< 1			
116694	4535	BOWEN MHP	MITCHELL	11-29-84	8412	1.000	2 + 2			
38435	4536	WHITMER MHP	LOWNDES	11-29-84	8412	1.000	< 1			
#####	4537	ANGLO-AMER. CLAY CO.		11-29-84	8412	4.000	2 + 1			
27545	4538	KINGSWOOD S/D	JACKSON	11-26-84	8412	1.000	< 1			
08963	4539	FOXBOROUGH S/D	LOWNDES	11-27-84	8412	1.000	< 2			
10698	4540	CUTHEERT, CITY OF	RANDOLPH	12 -6-84	8412	4.000	< 1			
35070	4541	STEWART'S MHP	JACKSON	12 -6-84	8412	1.000	< 1			
17597	4542	CRABAPPLE HILL S/D	THOMAS	12 -4-84	8412	1.000	< 1			
19684	4543	INDIGO MOBILE ESTATE	SCREVEN	12 -4-84	8412	1.000	< 1			
16381	4544	CINDY DRIVE S/D	THOMAS	12 -4-84	8412	1.000	3 + 1			
35609	4545	YANCEY TRAILER RENT.	COLQUITT	12 -5-84	8412	1.000	< 1			
53979	4546	SHERWOOD FOREST MHP	PEACH	12 -6-84	8412	1.000	< 1			
11103	4547	SYLVANIA, CITY OF	SCREVEN	12 -5-84	8412	1.000	< 1			
5815	4548	CANE CREEK TP	LUMPKIN	11-27-84	8412	3.000	< 1			
0216	4549	MAYSVILLE, CITY OF	BANKS	12-12-84	8412	1.000	< 1			
0610	4550	INDIAN BRANCH MHP	SCREVEN	10-24-84	8412	1.000	6 + 2			
0017	4551	BAXLEY, CITY OF	APPLING	12 -6-84	8412	4.004				
0207	4552	HOMER, CITY OF	BANKS	12-12-84	8412	1.000	8 + 2			

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GEORGIA INSTITUTE OF TECHNOLOGY  
OFFICE OF INTERDISCIPLINARY PROGRAMS  
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ATLANTA, GEORGIA 30332

ENVIRONMENTAL RESOURCES CENTER  
(404) 894-2375 3776

BIOENGINEERING CENTER  
(404) 894-2375

DATE: February 15, 1985

TO: James Hardeman, Program Manager  
Environmental Radiation Program  
Environmental Protection Division, DNR

FROM: Bernd Kahn, Director  
Environmental Resources Center

SUBJECT: Monthly Report of Activities for the State by the  
Environmental Radiation Laboratory, January, 1985

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The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental radionuclide monitoring at nuclear  
facilities by DNR staff Table 1-18

Monitoring by DNR staff of community water systems Table 19

Environmental radiation monitoring at nuclear facilities by DNR staff Table 20

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity that may be attributed to the facility:

Table 5 -- Cs-134 and Cs-137 in fish at the Hatch Nuclear Power Plant

Tables 12, 14, 16, 17 and 18--H-3 in milk, fish, rainwater, surface water and grass, and Cs-137 in fish, at the Savannah River Plant.

All other radionuclides in Tables 1-18 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables.

Radioactivity results for community water supplies, compiled in Table 19, include complete data for samples WS4167-4454 and partial data for samples WS4455-4585.

Elevated radium levels ( $> 5$  pCi/l) were found in the following:

WS 4428	Allmonds TP
WS 4470	Alamo
WS 4479	Seminole MHP
WS 4501	Oak Ridge TP

High uranium concentrations ( $>15$  pCi/l) were found in the following:

WS4408	Brittany Harbor
WS4409	Seminole MHP
WS4435	Maxeys
WS4454	Camak

Analyses of samples WS4227 - 4310 cannot be continued until additional samples are delivered from storage. Results for community water supplies continue to be reported in a different form this month due to computer difficulties.

TLD measurements obtained in the vicinity of Plant Hatch and background locations are reported in Table 20. One dosimeter overlooked during the previous collection at the Savannah River Plant (see Nov. 1984 report) is also listed. Ranges of exposure were:

<u>Location</u>	<u>Near Plant</u>	<u>Background</u>
Plant Hatch	35 - 69	51 - 96

None of the values are attributed to station operation. Note that the background locations are not well matched to the nearby locations.

The types of samples and number of each that were analyzed are summarized in the following two tables.



Sample Type Analyzed in Month

<u>Sample Types</u>	<u>Analyzed in Month</u>
Community water supplies	74
Nuclear facilities	269
Quality control - EPA	6
Total	<u>349</u>

Number of Samples Analyzed in Month

	water	air filter	air cartridge	milk	grass, veg.	soil, sediment	animals	smears	TLD	TOTAL
gross alpha	67	6								73
gross beta	20	10								30
gamma spectra	24	4	10	3	13		28			82
H-3	24			5	2		16			47
<sup>4</sup> Sr-89/90	8									8
I-131	10			3						13
Ra-226	18									18
Ra-228	10									10
U	5									5
Pu										
dose									63	63
other										
TOTALS	86	20	10	11	15		44		63	349

Table 1

Radioactivity Levels in Fish from the Environment  
of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Type</u>	<u>Location</u>	<u>H-3, pCi/l</u>
B 1170*	American eel	Sta. # 170	< 300
B 1171*	Largemouth bass	Sta. # 172	< 200

- 
- Notes: 1. Samples were collected on November 13-14, 1984 by Georgia Power Co. staff.
2. Other results are given in the report for November, 1984.

Table 2

Radioactivity Levels in Water Samples from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B 1177	Sta. # 170	< 2	2 ± 2	< 200	< 1
B 1178	Sta. # 172	< 2	3 ± 2	< 200	< 1
B 1196	TLD # 48	2 ± 2	2 ± 2	< 200	-----
B 1197	TLD # 22	2 ± 2	4 ± 2	< 200	-----

- 
- Notes: 1. Samples B1177-1178 were collected November 28 - December 26, 1984, by Georgia Power Co. staff; samples B1196-1197 were collected on January 8, 1985.
2. I-131 was calculated as of the final day of the collection period.
3. No man-made photon-emitting radionuclides were detected in these samples (Cs-137 <20 pCi/l).

Table 3

Radioactivity Levels in Air Samples from the  
Environment of the Hatch Nuclear Plant

Sample No.	Sample type	Location	Volume, m3	Radionuclide concen- tration, pCi/m3	
				I-131	Gross beta
B 1179	Cartridge Paper filter	Dead River Rd.	1680	<0.02 -----	----- 0.022
B 1180	Cartridge Paper filter	Plant Hatch	1491	<0.01 -----	----- 0.017
B 1181	Cartridge Paper filter	Substation	2993	<0.01 -----	----- 0.007

- 
- Notes: 1. Samples were collected on December 28, 1984 after 31-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 4

Radioactivity Levels in Milk Samples from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B 1182*	Johnson Bros.	< 10	1.7	< 200	< 2
B 1183*	GSP	< 6	1.6	< 200	< 4

- 
- Notes: 1. Sample were collected on December 17, 1984 by Georgia Power Co. staff.  
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 5

Radioactivity Levels in Fish from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Type</u>	<u>Location</u>	<u>Wet wt/ Dry wt.</u>	<u>H-3, pCi/l</u>	<u>Cs-137, pCi/kg</u>	<u>Cs-134, pCi/kg</u>
B 1184	Spotted sucker	Sta 1				
	edible		0.27	600+200	< 50	< 50
	inedible		0.34	-----	< 50	< 50
B 1185	Largemouth bass	Sta 1				
	edible		0.25	< 200	110	< 50
	inedible		0.37	-----	68	< 50
B 1186	Spotted sucker	Sta 3				
	edible		0.22	300+200	380	210
	inedible		0.30	-----	140	79
B 1187	Largemouth bass	Sta 3				
	edible		0.30	< 200	240	240
	inedible		0.30	-----	< 50	< 50
B 1188	Spotted sucker	Sta 2				
	edible		0.33	< 300	280	110
	inedible		0.30	-----	200	75
B 1189	Largemouth bass	Sta 2				
	edible		0.23	< 200	330	110
	inedible		0.31	-----	110	89

Notes: 1. Samples were collected on October 25, 1984.

2. Sample B1186 also contained Zn-65: edible, 180 pCi, not edible, 100 pCi/kg; no other man-made photon-emitting radionuclides were detected.

Table 6

Radioactivity Levels in Grass Samples from  
the Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>	
			<u>Cs-137</u>	<u>Be-7</u>
B 1190	TLD # 20	0.16	< 100	< 2,000
B 1191	TLD # 16	0.63	45	2,800
B 1192	TLD # 44	0.45	84	2,300
B 1193	TLD # 22	0.93	110	8,500
B 1194	TLD # 28	0.93	110	5,000
B 1195	TLD # 45	0.92	85	9,600
B 1198*	Sta # 5	0.13	340	2,600
B 1199*	Sta # 21	0.17	140	< 1,000

---

Notes: 1. Samples B1190-1195 were collected on January 8, 1985; samples B1198-1199 were collected on January 14, 1985, by Georgia Power Co. staff.



Table 7

Radioactivity Levels in Quarterly Composite Air Filters  
from the Environment of the Hatch Nuclear Plant

<u>Samples No.</u>	<u>Location</u>	<u>Dates, 1984</u>	<u>Volume, m<sup>3</sup></u>	<u>Cs-137 concen- tration, fCi/m3</u>
B 1200*	Dead River Rd.	Oct-Dec	4792	< 0.5
B 1201*	Plant Hatch	Oct-Dec	4314	< 0.5
B 1202*	Substation	Oct-Dec	8170	< 0.5

- 
- Notes:
1. Two filters collected successively at the same location were analyzed by gamma-ray spectrometry. See earlier reports and Table 3 for gross beta activity in individual filters and collection dates.
  2. No other photon-emitting radionuclides were detected except naturally occurring Be-7.

Table 8

Radioactivity Levels in Edible Portion of Fish from  
the Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Type</u>	<u>Location</u>	<u>H-3, pCi/l</u>
F 846	Carp	FBB-S5 101684	< 200
F 847	Bass	FGB-S5 101684	< 200
F 848	Carp	FBI-S5 101684	< 200
F 849	Bass	FBI-S5 101684	300+200

- 
- Notes: 1. Samples were collected on October 16, 1984,  
by Alabama Power Co. staff.
2. Other results are given in the report for  
December, 1984.

Table 9

Radioactivity Levels in Water Samples from  
the Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F 854*	Chattahoochee R. WRB-M5-1284	< 2	$3 \pm 2$	< 200	< 0.6
F 855*	Chattahoochee R. WRI-M5-1284	< 2	$3 \pm 2$	200 $\pm$ 200	< 0.6
F 857	Chattahoochee R. • Great Southern Paper Co.	< 2	$2 \pm 2$	< 300	-----

- 
- Notes: 1. Samples F854-855 were collected during December, 1984, by Alabama Power Co. staff; sample F857 was collected November 30-December 31, 1984.
2. I-131 was calculated as of the final day of the collection period.

Table 10

Radioactivity Levels in Air Sample from the  
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m<sup>3</sup></u>	<u>Radionuclide concen- tration, pCi/m<sup>3</sup></u>	
				<u>I-131</u>	<u>Gross beta</u>
F 856*	Cartridge Paper filter	Great Southern Paper Co.	2485	<0.004 -----	----- 0.001

- 
- Notes: 1. Sample was collected on December 31, 1984 after 31-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridge.

Table 11

Radioactivity Levels in Quarterly Composite Air Filters  
from the Environment in Georgia of the Farley Nuclear Plant

<u>Samples No.</u>	<u>Location</u>	<u>Dates, 1984</u>	<u>Volume, m<sup>3</sup></u>	<u>Cs-137 concentration, fCi/m<sup>3</sup></u>
F 858	Blakely Water Tower	Oct.	666	< 4
F 859	Great Southern Paper Co.	Oct - Dec.	11,323	<0.1

- Notes:
1. Sample F859 is three filters collected successively at the same location; F858 is a single filter. These were analyzed by gamma-ray spectrometry. See earlier reports and Table 9 for gross beta activity in individual filters and collection dates.
  2. No other photon-emitting radionuclides were detected except naturally occurring Be-7.

Table 12

Radioactivity Levels in Grass Samples from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Type</u>	<u>Location</u>	<u>H-3, pCi/l</u>
SR 1770	Channel bass	RM 20	2,600+300
SR 1771	Saltwater catfish	RM 10	1,700+200
SR 1773	Largemouth bass	RM 31	3,000+300
SR 1774	Spotted sucker	RM 31	3,000+300

- Notes: 1. Samples were collected on September 26, 1984.
2. Other results are given in the report for December, 1984.

Table 13

Radioactivity Levels in Air Samples from the  
Environment in Georgia of the Savannah River Plant

Sample No.	Sample type	Location	Volume, m <sup>3</sup>	Radionuclide concentration, pCi/m <sup>3</sup>		
				I-131	Gross alpha	beta
SR 1804	Cartridge Paper filter	Simulator	1136	<0.05 -----	----- 0.001	----- 0.008
SR 1805	Cartridge Paper filter	Waynesboro	537	<0.05 -----	----- 0.002	----- 0.011
SR 1806	Cartridge Paper filter	Hargrove Rd.	1278	<0.05 -----	----- <0.001	----- 0.003
SR 1807	Cartridge Paper filter	Girard	1269	<0.05 -----	----- <0.001	----- 0.002
SR 1808	Cartridge Paper filter	Welcome Ctr.	522	<0.05 -----	----- 0.002	----- 0.014
SR 1809	Cartridge Paper filter	Augusta	1686	<0.03 -----	----- <0.001	----- 0.003

- 
- Notes: 1. Samples were collected on December 19, 1984 after 20-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 14

Radioactivity Levels in Water Samples from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Inches Rainfall</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 1810	Hargrove Rd. rain	1.3	< 1	4 $\pm$ 2	In process	-----
SR 1811	GPC simulator rain	1.7	< 2	< 3	"	-----
SR 1812	Welcome Sta., rain	1.3	< 2	4 $\pm$ 2	"	-----
SR 1813	Waynesboro, rain	1.3	2 $\pm$ 1	< 3	"	-----
SR 1814	Augusta, rain	1.3	< 1	< 3	"	-----
SR 1815	Girard, rain	2.0	< 2	2 $\pm$ 2	"	-----
SR 1816	Savannah R., Hwy 301	---	< 2	< 3	"	-----
SR 1823	I&D Water Supply Port Wentworth	---	< 2	3 $\pm$ 2	4,500 $\pm$ 300	-----
SR 1824	Savannah R., R-10	---	2 $\pm$ 2	< 3	5,400 $\pm$ 300	< 3
SR 1825	Savannah R., R-2	---	< 2	3 $\pm$ 2	300 $\pm$ 200	< 3
SR 1828	RM 150.4	---	< 2	2 $\pm$ 2	800 $\pm$ 300	-----
SR 1829	RM 151.2	---	< 2	4 $\pm$ 3	8,200 $\pm$ 300	-----
SR 1830	RM 146.7	---	6 $\pm$ 2	11 $\pm$ 3	3,400 $\pm$ 300	-----
SR 1831	Port Wentworth, raw composite	---	2 $\pm$ 2	4 $\pm$ 2	4,200 $\pm$ 300	-----
SR 1832	N. Augusta, raw composite	---	2 $\pm$ 1	5 $\pm$ 2	300 $\pm$ 200	-----



Table 14 (cont)

<u>Sample No.</u>	<u>Location</u>	<u>Inches Rainfall</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 1856	Savannah R., R-2	---	< 3	5 <sub>±3</sub>	< 200	In Process
SR 1857	Savannah R., R-10	---	< 2	5 <sub>±2</sub>	1,700 <sub>±300</sub>	In Process

- 
- Notes: 1. Samples SR1810-1816 were collected November 29-December 18, 1984; sample SR1823 was collected January 1-8, 1985; samples SR1824-1825 were collected on December 26, 1984, by Savannah River Plant staff; samples SR 1828-1832 were collected December 4, 1984 - January 9, 1985 by Georgia Power Co. staff; SR 1856 - 1857 were collected on January 23, 1985 by Savannah River Plant staff.
2. I-131 was calculated as of final day of the collection period.
3. No man-made photon-emitting radionuclides were detected in samples SR1816, 1823-1825, 1828-1832 and 1856-1857 (Cs-137 <20 pCi/l).

Table 15

Radioactivity Levels in Quarterly Composite Air Filters  
from the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dates, 1984</u>	<u>Volume, m<sup>3</sup></u>	<u>Cs-137 concentration, fCi/m<sup>3</sup></u>
SR 1817	Hargrove Rd.	Oct-Dec	5757	< 0.5
SR 1818	Girard	Oct-Dec	3721	< 0.5
SR 1819	GPC simulator	Oct-Dec	5145	< 0.5
SR 1820	Augusta	Oct -Dec	4666	< 0.5
SR 1821	Waynesboro	Oct-Dec	4000	< 0.5
SR 1822	Ga. Welcome	Nov-Dec	930	< 3.

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- Notes: 1. Three filters collected succesively at the same location were analyzed by gamma-ray spectrometry. See earlier reports and Table 13 for gross beta activity in individual filters and collection dates.
2. No other photon-emitting radionuclides were detected except naturally occurring Be-7.

Table 16

Radioactivity Levels in Grass Samples from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>H-3, pCi/l.</u>	<u>Radionuclide concentration, pCi/kg</u>	
				<u>Cs-137</u>	<u>Be-7</u>
SR 1826	Hancock Landing	0.56	11,600±400	51	1,400
SR 1827	GPC simulator	0.40	7,200±300	190	2,300

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- Notes: 1. Samples were collected on January 22, 1985, by Georgia Power Co. staff.
2. No other man-made photon-emitting radionuclides were detected.  
Be-7 is formed in nature.

Table 17

Radioactivity Levels in Fish from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Type</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Cs-137, pCi/kg</u>
SR 1833	Largemouth bass edible inedible	Augusta Lock & Dam	0.24 0.34	100 <60
SR 1834	Red breast sunfish edible inedible	Augusta Lock & Dam		
SR 1835	Yellow perch edible inedible	Augusta Lock & Dam		
SR 1836	Spotted sucker edible inedible	Augusta Lock & Dam	0.28 0.35	210 100
SR 1837	Red breast sunfish edible inedible	Upper Three Runs Creek	0.33	77
SR 1838	Largemouth bass edible inedible	Upper Three Runs Creek	0.39	200
SR 1839	Spotted sucker edible inedible	Upper Three Runs Creek		

Table 17 (cont)

<u>Sample No.</u>	<u>Type</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Cs-137, pCi/kg</u>
SR 1840	Yellow perch edible inedible	Upper Three Runs Creek		
SR 1841	Largemouth bass edible inedible	Four Mile Creek	0.29	940
SR 1842	Spotted sucker edible inedible	Four Mile Creek	0.29 0.30	1,100 820
SR 1843	Redbreast sunfish edible inedible	Four Mile Creek		
SR 1844	Redbreast sunfish edible inedible	Steel Creek	0.34	390
SR 1845	Largemouth bass edible inedible	Steel Creek	0.32	2,100
SR 1846	Spotted sucker edible inedible	Steel Creek	0.30 0.36	630 370

Table 17 (cont)

<u>Sample No.</u>	<u>Type</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Cs-137, pCi/kg</u>
SR 1847	Largemouth bass edible inedible	Vogtle Discharge .	0.24	10.400
SR 1848	Redbreast sunfish edible inedible	Vogtle Discharge		
SR 1849	Spotted sucker edible inedible	Vogtle Discharge	0.30 0.32	110 <50
SR 1850	Largemouth bass edible inedible	Lower Three Runs Creek	0.26 0.35	19.000 9,000
SR 1851	Spotted sucker edible inedible	Lower Three Runs Creek	0.29 0.31	4,900 4,100
SR 1852	Redbreast sunfish edible inedible	Lower Three Runs Creek		

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- Notes: 1. Samples were collected on October 17, 1984, except that SR 1844, 1845 1850, 1851 and 1852 were collected on October 30.
2. No other man-made photon-emitting radionuclides were detected.
3. Gamma-ray spectral analysis is in process for samples which no Cs-137 value are reported; H-3 analysis of edible portions is also in process.

Table 18

Radioactivity Levels in Milk Samples from  
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 1853	Girard	In process		< 10	2.1	600+300	In process
SR 1854	Waynesboro	In process		< 6	1.8	<300	In process
SR 1855	Gracewood	In process		< 6	1.8	300+300	In process

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Notes: 1. Samples were collected on January 24, 1985, by Savannah River Plant staff.  
2. No other radionuclides were detected (Ba-140 <pCi/l).

Table 19

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8409 ... SEPTEMBER COMPLETE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
27271	4311 JOE PHILLIPS MHP	LONG	8-23-84	8409	4.001	< 3			
54321	4312 BURROUGHS COMM.	CHATHAM	8-21-84	8409	4.001	< 3			
26220	4313 SCARBORO COVE SD	CHATHAM	8-21-84	8409	4.001	< 2			
18852	4321 WALTHOURVILLE, CITY	LIBERTY	8-24-84	8409	1.000	< 2			
04545	4314 PRETORIA ACRES	DOUGHERTY	8-27-84	8409	1.001	< 3			
14748	4315 SPRINGGROVE ACRES SD	WAYNE	8-30-84	8409	1.000	< 3			
00902	4316 RICHMOND HILL, CITY	FRYAN	8-22-84	8409	1.000	< 2			
21087	4317 JONES COMM WATER ASN	MCINTOSH	8-27-84	8409	1.000	< 3			
34209	4318 SHUMAN TP	FRYAN	8-29-84	8409	1.000	< 3			
02002	4319 KEN'S MHP	FRYAN	8-29-84	8409	1.000	< 2			
12314	4320 WEST PT. WATER SYS	TROUP	8-30-84	8409	3.000	< 2			
07591	4322 WARNER ROBINS, CITY	HOUSTON	8-21-84	8409	1.000	< 2			
11933	4323 PAVO, CITY OF	THOMAS	8-28-84	8409	1.001	< 3			
13216	4324 SANDERSVILLE, CITY OF	WASHINGTON	8-30-84	8409	4.004	< 1			
01618	4325 METTER, CITY OF	CANDLER	9-12-84	8409	1.000	4 + 2	3.7	< 1.0	
10401	4326 PATTERSON, CITY OF	PIERCE	9-12-84	8409	1.000	< 2			
08686	4327 ISLE OF WIGHT SD	LIBERTY	8-29-84	8409	1.000	< 2			
12445	4329 SYCAMORE, CITY OF	TURNER	8-28-84	8409	1.000	< 2			
01054	4330 REGISTER, TOWN OF	BULLOCH	9-12-84	8409	1.000	< 2			
03448	4331 FUNSTON, CITY OF	COLQUITT	8-29-84	8409	1.000	< 2			
04411	4328 BRONZE BELL TP	DOUGHERTY	8-21-84	8409	1.000	2 + 2			
23712	4332 POINT PETER LANDING	CLAY	8-28-84	8409	1.000	< 4			
14772	4333 BANKS MHP	LOWNDES	8-30-84	8409	1.000	< 2			
36678	4334 SUNNYHILL ACRES SD	THOMAS	8-6-84	8409	1.000	< 2			
21665	4335 TWIN ACRES SD	THOMAS	8-28-84	8409	1.000	< 3			
04387	4336 PUTNEY WATER SUPPLY	DOUGHERTY	8-21-84	8409	1.000	< 2			
23183	4337 MISSION TRACE	CAMDEN	8-28-84	8409	1.000	< 4			
07643	4338 HOLIDAY RIVIERA MHP	HOUSTON	9-4-84	8409	1.000	< 2			
07634	4339 GLEATON'S MHP	HOUSTON	9-11-84	8409	1.000	4 + 2	3.9	< 1.0	
16627	4340 LIVE OAK MHP	GLYNN	9-11-84	8409	1.000	2 + 2			
04554	4341 SANHORN TP	DOUGHERTY	8-27-84	8409	1.000	< 2			
01160	4342 CLARK'S MHP	BULLOCH	9-12-84	8409	1.000	< 2			
2574	4343 CHRIST CHURCH HOME	HOUSTON	9-11-84	8409	1.000	4 + 2	1.8		
03054	4344 PINE HILL ESTATES	COWETA	9-8-84	8409	4.000	< 2			
07247	4345 OAK HILL ESTATES	LIBERTY	9-11-84	8409	4.000	< 2			
03277	4346 ODUM, CITY OF	WAYNE	9-17-84	8409	4.002	4 + 2	1.8		
06793	4347 DEMOREST, CITY OF	HABERSHAM	9-14-84	8409	4.000	< 2			
06793	4348 DEMOREST, CITY OF	HABERSHAM	9-18-84	8409	4.000	< 2			
0475	4349 ENIGMA, CITY OF	BERRIEN	9-13-84	8409	3.000	9 + 2	2.0	< 1.0	
0761	4350 LENOX, TOWN OF	COOK	9-12-84	8409	1.000	2 + 2			
0546	4351 COLQUITT MEM. HOSP.	COLQUITT	9-17-84	8409	1.000	< 3			
0948	4352 BLACK CRK FARMS SD	FRYAN	8-29-84	8409	1.000	< 2			
0263	4353 EVANS TP #1	COFFEE	8-24-84	8409	1.000	4 + 1	2.0		
01078	4354 BRIAR PATCH WTR ASN	MCINTOSH	9-13-84	8409	1.000	< 2			
02460	4355 VICK'S MHP	CHATHAM	9-18-84	8409	1.000	< 2			
0167	4356 DENMARK TP	LIBERTY	9-4-84	8409	1.000	< 3			
0426	4357 EVANS TP #2	COFFEE	8-24-84	8409	1.000	< 2			
0747	4358 OCILLA, CITY OF	IRWIN	9-11-84	8409	1.000	< 1			
0008	4359 SAVANNAH STATE COLL	CHATHAM	9-18-84	8409	1.000	< 2			
0466	4360 ALAPAHA, CITY OF	BERRIEN	9-13-84	8409	3.000	17 + 2	10.3	< 1.0	< 2

TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER



RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8409 ... SEPTEMBER COMPLETE

#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
302372	4361	RIVER OAKS SD	CHATHAM	9-19-84	8409	1.000	< 2			
306793	4362	DEMOREST, CITY OF	HABERSHAM	9-18-84	8409	4.000	< 2			
321430	4363	CANNON BLUFF WA	MCINTOSH	9-13-84	8409	1.000	< 3			
322954	4364	SHADY ACRES MHP	CHATHAM	9-19-84	8409	1.000	< 3			
306451	4365	JEKYLL ISLAND WA	GLYNN	8-29-81	8409	1.000	< 2			
336383	4366	BENNETT'S TP	LIBERTY	9-12-84	8409	1.000	< 2			
317792	4367	ENNIS MHP	CHATHAM	9-17-85	8409	1.000	< 2			
309506	4368	DARIEN, CITY OF	MCINTOSH	9-13-84	8409	1.000	< 3			
319310	4369	JOHN ALFORD SD	MCINTOSH	9-13-84	8409	1.000	< 3			
318537	4370	BEIHESDA BOYS HOME	CHATHAM	9-18-84	8409	1.000	< 2			
302211	4371	HARBOR CREEK SD	CHATHAM	9-19-84	8409	1.000	< 2			
125169	4372	CEDAR CREEK MHP	LONG	9 -4-84	8409	1.000	< 2			
314228	4373	LAKE SIDE MHP	LIBERTY	9-12-84	8409	1.000	< 2			
300966	4374	BRYAN WOODS ESTATES	BRYAN	8-29-84	8409	1.000	< 2			
302057	4375	HOLLY TP	BRYAN	9 -7-84	8409	1.000	< 2			
302424	4376	SUBURB VILLAGE MHP	CHATHAM	9-19-84	8409	1.000	< 1			
306793	4377	DEMOREST, CITY OF	HABERSHAM	9-14-84	8409	4.000	< 2			
314607	4378	MALONE'S LAKE PARK	LAURENS	9 -4-84	8409	1.000	< 2			

S: TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8410 ... OCTOBER COMPLETE

SAMPLE WS #	LOCATTON	COUNTY	COLLECT DATE	LAB DATE	TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
13638	4379 IVEY, CITY OF	WILKINSON	9-26-84	8410	4.003	2 + 1			
05441	4380 COLONIAL CLUB EST.	FORSYTH	9-17-84	8410	4.003	< 2			
05819	4381 ROYSTON, CITY OF	FRANKLIN	8-24-84	8410	1.000	< 1			
10643	4382 RAB.GAP-NOOCHEE SCH	RABUN	8-17-84	8410	1.000	< 1			
17743	4383 PINE HILL MHP	TIFT	9-21-84	8410	3.000	95 + 5	15.1	< 1.0	
16548	4384 WINDWARD ACRES S/D	GLYNN	6-20-84	8410	1.000	< 2			
12021	4385 TY TY, TOWN OF	TIFT	9-21-84	8410	1.000	< 2			
08415	4386 MEADOWDALE MHP	LAURENS	9-18-84	8410	1.000	< 2			
17453	4387 PECAN HAVEN MHP	PEACH	9-21-84	8410	1.000	< 2			
13741	4388 WORTH CO. CORR. INST	WORTH	9-25-84	8410	1.000	< 2			
12030	4389 ABE BALDWIN AGR COLL	TIFT	9-21-84	8410	1.000	8 + 2	1.9	< 1.0	
225371	4390 CARNIGAN WATER ASSN	MCINTOSH	9-25-84	8410	1.000	< 2			
20460	4391 WOODLAND MHP	GLYNN	6-20-84	8410	1.000	< 2			
001541	4392 ST. MARY'S, CITY OF	CAMDEN	9-26-84	8410	1.000	< 2			
08555	4393 PLANTATION MHP	LEE	9-17-84	8410	1.000	< 2			
11915	4394 MEIGS, CITY OF	THOMAS	9-26-84	8410	1.000	< 3			
05146	4395 BROOKS, CITY OF	FAYETTE	9-15-84	8410	1.000	53 + 4	1.0	1.2	70 + 6
110444	4396 MOLENA, CITY OF	PIKE	8-23-84	8410	1.000	132 + 9	0.5	< 1.0	176 + 14
15846	4397 SEMINOLE MHP	CLARKE	9-13-84	8410	1.000	25 + 2			
05873	4398 BRITTANY HARBOR #2	FRANKLIN	9-18-84	8410	1.000	62 + 8			
03130	4399 ROYAL COURT MHP	CLAYTON	8-23-84	8410	1.000	24 + 2			
05146	4400 BROOKS, CITY OF	FAYETTE	8-15-84	8410	1.000	53 + 4			
15815	4401 CANE CREEK TP	LUMPKIN	8-2-84	8410	1.000	< 3			
10444	4402 MOLENA, CITY OF	PIKE	8-23-84	8410	1.000	106 + 4			
07003	4403 LANIER SAILING CLUB	HALL	9-30-84	8410	1.000	11 + 2			
10444	4404 MOLENA, CITY OF	PIKE	8-23-84	8410	1.000	122 + 6			
03130	4405 ROYAL COURT MHP	CLAYTON	8-23-84	8410	1.000	26 + 3	1.4	< 1.0	17 + 2
15815	4406 CANE CREEK TP	LUMPKIN	8-2-84	8410	1.000	< 2			
10444	4407 MOLENA, CITY OF	PIKE	8-23-84	8410	1.001	126 + 5			
05873	4408 BRITTANY HARBOR #2	FRANKLIN	9-18-84	8410	1.000	43 + 5	12.8	1.7	18 + 1
15846	4409 SEMINOLE MHP	CLARKE	9-13-84	8410	1.000	24 + 2	7.0	< 1.0	18 + 1
05873	4410 BRITTANY HARBOR #2	FRANKLIN	9-18-84	8410	1.000	52 + 5			
07003	4411 LANIER SAILING CLUB	HALL	9-30-84	8410	1.000	9 + 2	< 0.1	< 1.0	
8111	4412 COLONIAL EST. MHP#2	WAYNE	10-4-84	8410	1.000	2 + 1			
6501	4413 BRITTANY HARB. WEST	FRANKLIN	9-18-84	8410	3.000	9 + 2	2.5	6.1	
7653	4414 BRASWELL, CITY OF	PAULDING	10-4-84	8410	4.000	2 + 1			
1079	4415 HILTONIA, CITY OF	SCREVEN	9-26-84	8410	1.000	< 2			
8496	4416 GREEN ACRES MHP	SCREVEN	9-25-84	8410	1.000	< 2			
3112	4417 LAZY ACRES TP	WARE	10-4-84	8410	1.001	3 + 1			
4277	4418 PO' ROBIN MHP	SCREVEN	9-25-84	8410	1.000	< 2			
7341	4419 TUGALOO BAY	HART	9-18-84	8410	3.000	13 + 3	1.3	< 1.0	14 + 1
0880	4420 MOBILE HOME C. CLUB	RICHMOND	9-26-84	8410	1.000	< 2			
7427	4421 FERNWOOD MHP	BROOKS	9-18-84	8410	4.000	4 + 2	4.5	< 1.0	
7391	4422 MEADOWBROOK MHP	NEWTON	10-10-84	8410	4.000	< 2			
8018	4423 MOBILE HOME EST.	LOWNDES	9-27-84	8410	1.000	< 2			
8067	4424 BAILEY MHP	TIFT	10-10-84	8410	1.000	2 + 2			
8625	4425 LEE WATERS MHP	WAYNE	10-4-84	8410	1.000	< 3			
8249	4426 COLONIAL EST. MHP #1	WAYNE	10-4-84	8410	1.000	< 2			
8560	4427 EDGEWOOD MHP	JEFF DAVIS	9-27-84	8410	1.000	8 + 2	1.2	< 1.0	
8035	4428 ALLMONDS TP	MONTGOMERY	10-3-84	8410	1.000	10 + 2	5.0	< 1.0	

TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8410 ... OCTOBER COMPLETE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
37239	4429 PAYNE'S MHP	CHEROKEE	8-10-84	8410	1.000	< 2			
08284	4430 MODTROSE, CITY OF	LAURENS	10 -2-84	8410	1.000	3 + 1			
14063	4431 COLONIAL ACRES S/D	LEE	10 -5-84	8410	1.000	< 2			
03277	4432 FAIRWAYS VILLA MHP	COBB	8-10-84	8410	1.000	2 + 2			
14040	4433 OAKLAND MHP	CHEROKEE	8-10-84	8410	1.000	< 2			
19733	4434 CANAUGA SD	LEE	10 -5-84	8410	1.000	< 2			
10206	4435 MAXEYS, CITY OF	OGLETHORPE	10 -5-84	8410	6.002	29 + 3	1.4	1.3	45 + 4
05511	4436 GREEN ACRES MOB EST	COLQUITT	10-10-84	8410	1.000	2 + 1			
09840	4437 MOUNT VERNON, CITY	MONTGOMERY	10 -3-84	8410	1.000	< 3			
14081	4438 COUNTRY VILLA SD	LEE	10-10-84	8410	1.000	< 2			
14273	4439 CR STANFORD APTS.	LIBERTY	10-17-84	8410	1.000	< 2			
25141	4440 NETHER MHP	WORTH	10-11-84	8410	1.000	< 3			
15048	4441 PLEASANT HILL MHP	WORTH	10-11-84	8410	1.000	< 2			
08500	4442 DIXON MHP	LEE	10-10-84	8410	1.000	< 2			
01323	4443 WALKER'S TP	BERRIEN	10-15-84	8410	1.000	< 2			
117336	4444 W D STANFORD MHP	LIBERTY	10-16-84	8410	1.000	< 2			
22750	4445 FOSS MHP	CHATHAM	10-15-84	8410	1.000	< 2			
09703	4446 CAMILLA, CITY OF	MITCHELL	10 -9-84	8410	1.000	< 2			
01027	4447 BROOKLET, CITY OF	BULLOCH	10-11-84	8410	1.000	< 3			
12979	4448 WARE CO. WATER SYST.	WARE	10 -4-84	8410	1.000	2 + 2			
24276	4449 MURRAY TP	WAYNE	10 -4-84	8410	1.000	< 2			
20899	4450 DANIEL VILLAGE MHP	CANDLER	10-11-84	8410	1.000	< 2			
02053	4451 AZALEA MHP	CHATHAM	10-15-84	8410	1.000	< 2			
06252	4452 CABANA COURT MHP	GLYNN	10-19-84	8410	1.000	2 + 1			
07814	4453 NICHOLSON W. S.	JACKSON	10 -3-84	8410	3.000	3 + 1			
13146	4454 CAMAK, CITY OF	WARREN	10-12-84	8410	1.000	28 + 3	1.1	< 1.0	67 + 5

6: TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8411 ... NOVEMBER INCOMPLETE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
15012	4455 SADDLE BAGS MHP	LOWNDES	10-25-84	8411	1.000	2 + 1			
15137	4456 WRIGHTS TP	LOWNDES	10-18-84	8411	1.000	2 + 1			
13378	4457 GLENWOOD, CITY OF	WHEELER	10-30-84	8411	1.000	3 + 1			
22692	4458 NORWOOD, CITY OF	WARREN	10-30-84	8411	1.000	2 + 1			
08848	4459 GA CHRISTIAN SCHOOL	LOWNDES	10-29-84	8411	1.000	2 + 1			
04278	4460 ALBANY	DOUGHERTY	10-31-84	8411	1.000	< 1			
12198	4461 VIDALIA, CITY OF	TOOMBS	10-25-84	8411	1.000	3 + 1			
27450	4462 ANGLER'S COVE ASSN	LIBERTY	10 0-84	8411	4.001	< 1			
15120	4463 AVONDALE MHP	BIBB	10-25-84	8411	1.000	3 + 1			
005785	4464 CARNESVILLE, CITY OF	FRANKLIN	10-31-84	8411	4.004	3 + 1			
008811	4465 LAKE PARK, CITY OF	LOWNDES	10-25-84	8411	1.000	< 1			
520799	4466 CIRCLE	THOMAS	10-29-84	8411	4.003	3 + 1			
17011	4467 RUNAWAY POINT S/D	CHATHAM	10-16-84	8411	1.000	< 2			
103335	4468 DOUGLASS, CITY OF	COFFEE	10-25-84	8411	1.000	4 + 1			
22556	4469 WHITE MARSH ISLAND	CHATHAM	10-16-84	8411	1.000	< 1			
13369	4470 ALAMO, CITY OF	WHEELER	10-30-84	8411	1.000	82 + 3	17.6		< 2
002211	4471 HARBOR CREEK S/D	CHATHAM	10-26-84	8411	1.000	< 1			
114824	4472 MOUNTVILLE, CITY OF	TROUP	10 -5-84	8411	6.001	2 + 1			
008564	4473 GREENVIEW MHP	LEE	11 -2-84	8411	1.000	< 1			
005584	4474 SANDS MHP	COLQUITT	11 -5-84	8411	1.000	4 + 1	2.0		
14665	4475 WOODLAND LAKE S/D	LIBERTY	10-17-84	8411	1.000	< 1			
14533	4476 CANAL RD. MHP	GLYNN	10-23-84	8411	1.000	< 1			
08528	4477 LAKEVIEW MHP	LEE	11 -2-84	8411	1.000	< 1			
27876	4478 KEYRIDGE MHP	LEE	11 -2-84	8411	1.000	< 1			
15846	4479 SEMINOLE MHP	CLARKE	11 -6-84	8411	3.000	26 + 2	7.9		
11906	4480 COOLIDGE, CITY OF	THOMAS	11 -1-84	8411	1.000	4 + 2	1.3		
01801	4481 FORT MCINTOSH WIR S	BRANTLEY	10-25-84	8411	1.000	2 + 1			
08701	4482 LAKE GEORGE S/D	LIBERTY	10-17-84	8411	1.000	< 1			
18388	4483 RIVER BEND S/D	CHATHAM	10-16-84	8411	1.000	< 2			
02431	4484 THE BLUFF S/D	CHATHAM	10-23-84	8411	1.000	< 2			
02248	4485 THE LANDINGS S/D	CHATHAM	10-26-84	8411	1.000	< 2			
14824	4486 MOUNTVILLE, CITY OF	TROUP	11 -5-84	8411	6.000	4 + 1	0.3		
14824	4487 MOUNTVILLE, CITY OF	TROUP	11 -5-84	8411	4.003	14 + 2			
07909	4488 TURTLE COVE	JASPER	11 -1-84	8411	4.009	< 2			
8125	4489 BUTCH'S TP	PEACH	11 -8-84	8411	1.000	2 + 2			
7241	4490 ROSE CITY MHP	THOMAS	11 -9-84	8411	3.000	3 + 2			
1577	4491 WHISPERING PINE EST	TIFT	11 -9-84	8411	6.000	19 + 3			
5557	4492 PINEY GROVE S/D	COLQUITT	11 -6-84	8411	1.000	< 2			
8936	4493 DAYLEY'S MHP	LOWNDES	11 -6-84	8411	1.000	< 2			
4985	4494 REGISTER MHP	LOWNDES	11 -6-84	8411	1.000	< 2			
3216	4495 SANDERSVILLE, CITY OF	WASHINGTON	11-13-84	8411	4.004	2 + 2			
7717	4496 FAWN HEIGHTS S/D	BROOKS	11 -8-84	8411	4.001	< 2			
5708	4497 BARBERRY HILLS S/D	FORSYTH	10-31-84	8411	4.003	9 + 2			
5543	4498 EULONIA W.S.	MCINTOSH	10-13-84	8411	4.000	< 2			
3130	4499 ROYAL COURT MHP	CLAYTON	11-16-84	8411	6.000	34 + 3			
3519	4500 KINCHAFONEE MHP	LEE	11 -5-84	8411	1.000	< 1			
936	4501 OAK RIDGE TP	TIFT	11 -9-84	8411	6.000	570 + 7			
723	4502 JONES MHP	GWINNETT	11-19-84	8411	4.002	2 + 2			
427	4503 ASHBURN, CITY OF	TURNER	11-15-84	8411	4.005	< 1			
###	4504 WINDY CREEK S/D		11-24-84	8411	4.002	3 + 1			

TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER

COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8411 ... NOVEMBER INCOMPLETE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
#####	4505 FAMILY LIFE ENR CENT		11-24-84	8411	4.002	< 1			
#####	4506 WINDY CREEK S/D		11-24-84	8411	4.001	1 + 1			
22718	4507 FAMILY LIFE ENR CENT	OCONEE	11-24-84	8411	4.001	3 + 1			

S: TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8412 ... DECEMBER INCOMPLETE

	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAP DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
007927	4508	HAZLEHURST, CITY OF	JEFF DAVIS	11-26-84	8412	4.001	9 + 2			
027762	4509	PLANTATION ACRES MHP	MCDUFFIE	11-16-84	8412	4.000	< 1			
033744	4510	ELDER HEIGHTS	COONEE	11-27-84	8412	4.002	< 1			
018852	4511	WALTHOURVILLE, CITY	LIBERTY	11-27-84	8412	4.002	< 1			
008104	4512	GRAY, CITY OF	JONES	11-26-84	8412	4.008	16 + 2			
008104	4513	GRAY, CITY OF	JONES	11-16-84	8412	4.009	36 + 3			
008616	4514	LEE CO. CORR. INST.	LEE	11-14-84	8412	1.000	< 1			
027382	4515	MOBILE MANOR ESTATE	PEACH	11-16-84	8412	1.000	< 2			
003649	4516	GROVETOWN, CITY OF	COLUMBIA	11-19-84	8412	1.000	2 + 1			
021980	4517	SANDY PINES MHP	LAURENS	11-20-84	8412	1.000	< 1			
008467	4518	LEESBURG, CITY OF	LEE	11-27-84	8412	1.000	< 1			
020510	4519	TIFT AREA MHP	TIFT	11-14-84	8412	1.000	2 + 2			
008591	4520	LEE HIGH ACRES S/D	LEE	11-27-84	8412	1.000	< 1			
0735354	4521	SPRING VALLEY S/D	NEWTON	8-14-84	8412	1.000	210 + 6			
004158	4522	ATTAPULGUS, CITY OF	DECATUR	11-20-84	8412	3.001	13 + 2			
0712137	4523	WILSON'S MHP	TIFT	11-14-84	8412	1.000	< 1			
021845	4524	BARRETS MHP	LOWNDES	11-13-84	8412	1.000	< 1			
021056	4525	ROLLING HILLS MHP	PEACH	11-19-84	8412	1.000	< 1			
009072	4526	RIVER PARK	LOWNDES	10-16-84	8412	1.000	4 + 1			
022510	4527	M & T WATER WORKS	TOOMBS	11-27-84	8412	6.000	12 + 2			
021683	4528	PERELE HILL PLANT.	THOMAS	11-27-84	8412	1.000	4 + 2			
014643	4529	ROUMIREE'S MHP	LAURENS	11-20-84	8412	1.000	< 1			
008537	4530	LEE ESTATES	LEE	11-28-84	8412	1.000	< 1			
004158	4531	ATTAPULGUS, CITY OF	DECATUR	11-20-84	8412	3.000	27 + 3			
019833	4532	MEADOW HAVEN MHP	HOUSTON	11-27-84	8412	6.000	44 + 2	12.5		
012771	4533	LAFAYETTE, CITY OF	WALKER	12 -4-84	8412	0.000	< 1			
023675	4534	DE LAIGLE MHP	BURKE	12 -3-84	8412	4.003	< 1			
016694	4535	BOWEN MHP	MITCHELL	11-29-84	8412	1.000	2 + 2			
008435	4536	WHITMER MHP	LOWNDES	11-29-84	8412	1.000	< 1			
0#####	4537	ANGLO-AMER. CLAY CO.		11-29-84	8412	4.000	2 + 1			
027545	4538	KINGSWOOD S/D	JACKSON	11-26-84	8412	1.000	< 1			
008963	4539	FOXBOROUGH S/D	LOWNDES	11-27-84	8412	1.000	< 2			
010698	4540	CUIHEERT, CITY OF	RANDOLPH	12 -6-84	8412	4.000	< 1			
05070	4541	STEWART'S MHP	JACKSON	12 -6-84	8412	1.000	< 1			
07597	4542	CRABAPPLE HILL S/D	THOMAS	12 -4-84	8412	1.000	< 1			
09684	4543	INDIGO MOBILE ESTATE	SCREVEN	12 -4-84	8412	1.000	< 1			
06381	4544	CINDY DRIVE S/D	THOMAS	12 -4-84	8412	1.000	3 + 1			
06609	4545	YANCEY TRAILER RENT.	COLQUITT	12 -5-84	8412	1.000	< 1			
03979	4546	SHERWOOD FOREST MHP	PEACH	12 -6-84	8412	1.000	< 1			
01103	4547	SYLVANIA, CITY OF	SCREVEN	12 -5-84	8412	1.000	< 1			
05815	4548	CANE CREEK TP	LUMKIN	11-27-84	8412	3.000	< 1			
00216	4549	MAYSVILLE, CITY OF	BANKS	12-12-84	8412	1.000	< 1			
00610	4550	INDIAN BRANCH MHP	SCREVEN	10-24-84	8412	1.000	6 + 2			
00017	4551	BAXLEY, CITY OF	APPLING	12 -6-84	8412	4.004	9 + 2			
00207	4552	HOMER, CITY OF	BANKS	12-12-84	8412	1.000	8 + 2			

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COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8501 ... JANUARY INCOMPLETE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
27862	4553 ANNEEWAKEE N.SYST. 2	FOLK	1 -3-85	8501	4.002	7 + 2			
11524	4554 PLAINS, CITY OF	SUMTER	1 -4-84	8501	4.006				
27871	4555 ANNEEWAKEE N.SYST. 2	FOLK	1 -3-85	8501	4.001	< 1			
11524	4556 PLAINS, CITY OF	SUMTER	1 -4-85	8501	4.005	3 + 1			
26238	4557 HIDDEN ACRES S/D	THOMAS	1 -8-85	8501	4.000	< 1			
43325	4558 ROBINS AFB	HOUSTON	12-14-84	8501	1.000	3 + 1			
17241	4559 ROSE CITY MHP	THOMAS	12-12-84	8501	3.000	3 + 1			
14616	4560 WOODLAND TRAILS MHP	LAURENS	1 -3-85	8501	1.000	2 + 2			
00466	4561 ALAPAHA, CITY OF	BERRIEN	12-19-84	8501	3.000	25 + 3			
13687	4562 THUNDERNG SPRING INC	LAURENS	12-18-84	8501	1.000	< 2			
08223	4563 LAKELAND, CITY OF	LANIER	12-19-84	8501	1.000	4 + 1			
08433	4564 TARPLEY'S MHP	LAURENS	12-18-84	8501	1.000	< 1			
09721	4565 PELHAM, CITY OF	MITCHELL	12-19-84	8501	1.000	2 + 1			
25105	4566 CONGER MHP	WORTH	12-11-84	8501	1.000	2 + 1			
07341	4567 TUGALOO BAY	HART	12-21-84	8501	3.000	18 + 3			
26132	4568 DAIRY TRACT	JEFFERSON	12-20-84	8501	1.000	< 2			
17279	4569 SCHROER ESTATES	LOWNDES	12-17-84	8501	1.000	< 2			
16495	4570 BRITITANY HARBOR SOU.	FRANKLIN	12-21-84	8501	3.000				
00475	4571 ENIGMA, CITY OF	BERRIEN	12-19-84	8501	3.000				
#####	4572 WHITE WATER CREEK		1-17-85	8501	4.001				
14967	4573 PINE CIRCLE T/P	LOWNDES	1-15-85	8501	4.002	< 2			
39812	4574 KINGS GAP UTILITYS	HARRIS	1-14-85	8501	4.000	< 1			
#####	4575 QUEENSLAND COMM		1-15-85	8501	4.001	3 + 1			
24877	4576 EL DORADO WATER SUPP	TIFT	1-16-85	8501	4.000	2 + 1			
12155	4577 TIFTON IND. PARK	TIFT	1-16-85	8501	4.004				
12155	4578 TIFTON IND. PARK	TIFT	1-16-85	8501	4.005				
08476	4579 SMITHVILLE, CITY OF	LEE	1-17-85	8501	1.000	< 1			
25783	4580 WINDING WAY EST.	QUITMAN	1-22-85	8501	1.000	< 1			
12605	4581 SIZLAND T/P	IRWIN	1-16-85	8501	1.000	< 1			
24251	4582 CAMPBELL WATER SYST	DOUGHERTY	1 -7-85	8501	1.000	< 1			
5004	4583 FOXCROFT S/D	THOMAS	1 -4-85	8501	1.001	2 + 2			
6224	4584 LEE VILLA S/D	LEE	1-22-85	8501	1.000	< 1			
7065	4585 FOREST ESTATES S/D	IRWIN	1-16-85	8501	1.000	< 2			

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: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

Table 20

Exposure Rates at Nuclear Facilities  
Measured with TLD's

ANT HATCH NUCLEAR PLANT ... 840926 - 850108 - 104 DAYS

TLD#	MR	MICRR/HR	MR/YR	
1.0	15.3	6.1	53.5	
(+-)	1.9	0.7	6.6	
2.0	17.2	6.9	60.5	
(+-)	2.1	0.8	7.4	
3.0	15.9	6.4	55.9	
(+-)	1.8	0.7	6.2	
4.0	11.8	4.7	41.6	
(+-)	2.5	1.0	8.6	
5.0	15.1	6.1	53.1	
(+-)	2.2	0.9	7.6	
6.0	14.5	5.8	50.9	
(+-)	1.9	0.8	6.6	
7.0	14.6	5.9	51.3	
(+-)	1.8	0.7	6.4	
8.0	15.0	6.0	52.6	
(+-)	2.3	0.9	8.0	
9.0	12.1	4.9	42.6	
(+-)	1.3	0.5	4.7	
10.0	15.1	6.1	53.0	
(+-)	1.8	0.7	6.4	
11.0	12.7	5.1	44.7	
(+-)	1.5	0.6	5.3	
12.0	16.0	6.4	56.1	
(+-)	1.8	0.7	6.3	
13.0	19.7	7.9	69.0	
(+-)	2.3	0.9	8.2	... <> 95% NORMAL DIST.
14.0	13.6	5.5	47.8	
(+-)	1.9	0.8	6.8	
15.0	14.4	5.8	50.5	
(+-)	1.5	0.6	5.4	
16.0	15.8	6.3	55.6	
(+-)	2.5	1.0	8.9	
17.0	15.7	6.3	55.1	
(+-)	1.9	0.7	6.6	
18.0	17.0	6.8	59.8	
(+-)	2.2	0.8	7.7	



19.0	13.1	5.3	46.1
(+-)	1.6	0.6	5.6
20.0	12.3	4.9	43.3
(+-)	1.4	0.6	4.8
21.0	15.3	6.1	53.6
(+-)	2.4	0.9	8.3
22.0	16.0	6.4	56.2
(+-)	2.6	1.0	9.2
23.0	11.7	4.7	40.9
(+-)	1.4	0.5	4.7
24.0	15.4	6.2	53.9
(+-)	2.4	1.0	8.5
25.0	12.7	5.1	44.4
(+-)	1.5	0.6	5.1
26.0	11.0	4.4	38.8
(+-)	1.6	0.6	5.5
27.0	13.7	5.5	48.0
(+-)	1.5	0.6	5.3
28.0	14.5	5.8	50.9
(+-)	1.7	0.7	5.9
29.0	10.7	4.3	37.5
(+-)	1.3	0.5	4.4
30.0	13.1	5.2	45.8
(+-)	1.4	0.6	5.0
31.0	12.9	5.2	45.3
(+-)	1.5	0.6	5.3
32.0	16.0	6.4	56.2
(+-)	2.2	0.9	7.7
33.0	14.5	5.8	50.8
(+-)	2.0	0.8	7.0
34.0	13.5	5.4	47.5
(+-)	2.5	1.0	8.6
35.0	14.4	5.8	50.4
(+-)	1.6	0.6	5.7
36.0	10.0	4.0	35.0
(+-)	1.3	0.5	4.4
37.0	12.5	5.0	44.0
(+-)	2.0	0.8	6.9
38.0	11.9	4.7	41.6
(+-)	1.5	0.6	5.1
39.0	14.3	5.7	50.1
(+-)	1.7	0.7	5.8
40.0	12.8	5.1	44.9
(+-)	2.0	0.8	6.9
41.0	13.3	5.3	46.7
(+-)	1.6	0.6	5.6

... <> 95% NORMAL DIST.

	(+-)	3.1	1.2	10.7
43.0		15.3	6.1	53.6
	(+-)	2.2	0.9	7.7
44.0		13.6	5.5	47.9
	(+-)	1.9	0.7	6.5
45.0		14.4	5.8	50.4
	(+-)	1.6	0.6	5.5
46.0		17.2	6.9	60.2
	(+-)	2.1	0.8	7.3
47.0		14.7	5.9	51.4
	(+-)	1.6	0.6	5.5
48.0		17.1	6.9	60.1
	(+-)	1.9	0.8	6.6
49.0		16.2	6.5	56.8
	(+-)	2.7	1.1	9.3
NET. AVG.:		14.3	5.7	50.2
	(+-)	3.8	1.5	13.5

TE BACKGROUND - PLANT HATCH ... 840926 - 850108 : 104 DAYS

TLD#	MR	MICRR/HR	MR/YR
4.0	27.2	10.9	95.5
(+-)	2.8	1.1	10.0
5.0	23.4	9.4	82.2
(+-)	3.8	1.5	13.3
6.0	18.7	7.5	65.5
(+-)	2.3	0.9	8.1
7.0	16.3	6.5	57.2
(+-)	1.8	0.7	6.5
8.0	14.6	5.9	51.3
(+-)	1.7	0.7	6.1
NET. AVG.:	20.0	8.0	70.4
(+-)	10.4	4.2	36.5

NNAH RIVER PLANT ... 840905 - 841220 - 106 DAYS

TLD#	MR	MICRR/HR	MR/YR
25.0	19.4	7.6	66.8
(+-)	2.9	1.1	10.0



GEORGIA INSTITUTE OF TECHNOLOGY  
OFFICE OF INTERDISCIPLINARY PROGRAMS  
205 OLD CIVIL ENGINEERING BUILDING  
ATLANTA, GEORGIA 30332

ENVIRONMENTAL RESOURCES CENTER  
(404) 894-2375

BIOENGINEERING CENTER  
(404) 894-2375

DATE: March 15, 1985

TO: James Hardeman, Program Manager  
Environmental Radiation Program  
Environmental Protection Division, DNR

FROM: Bernd Kahn, Director  
Environmental Resources Center

SUBJECT: Monthly Report of Activities for the State by the  
Environmental Radiation Laboratory, February, 1985

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The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental radionuclide monitoring at nuclear facilities by DNR staff	Table 1-17
Monitoring by DNR staff of community water systems	Table 18
Environmental radiation monitoring at nuclear facilities by DNR staff	Table 19

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity that may be attributed to the facility:

Table 3--I-131 in milk at the Hatch Nuclear Power Plant.

Tables 13, 14, 15, and 17--H-3 in milk, fish, rainwater, and surface water, and Cs-137 in fish, at the Savannah River Plant.

All other radionuclides in Tables 1-17 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables.

Radioactivity results for community water supplies, compiled in Table 18, include partial data for samples WS4455-4639.

Elevated radium levels ( $> 5$  pCi/l) were found in the following:

WS 4521	Spring Valley SD
WS 4532	Meadow Haven MHP

Analyses of samples WS4227 - 4310 cannot be continued until additional samples are delivered from storage. Results for community water supplies continue to be reported in a different form this month due to computer difficulties.

TLD measurements obtained in the vicinity of Dawson Forest and at a background location are reported in Table 19. Ranges of exposure were:

<u>Location</u>	<u>Near Plant</u>	<u>Background</u>
Dawson Forest	75-102	67

Insufficient background measurements were performed to determine whether any value is above background.

The types of samples and number of each that were analyzed are summarized in the following two tables.

Number of Samples Analyzed in Month

	water	air filter	air cartridge	milk	grass, veg.	soil, sediment	animals	smears	TID	February TOTAL
gross alpha	83									83
gross beta	20	4								24
gamma spectra	5	4	7	11			29			56
H-3	30			38			23			91
Sr-89/90	7			3						10
I-131	5			6						11
Ra-226	10									10
Ra-228	4									4
U	5									5
Pu										
dose									17	17
other										
Total	164	8	7	58			52	17	17	306

sample Types Analyzed In Month

<u>Sample Types</u>	<u>Analyzed in Month</u>
Community water supplies	77
Nuclear facilities	216
Quality control - EPA	13
Total	<u>306</u>



Table 1

Radioactivity Levels in Water Composites from the  
Environment of the Hatch Nuclear Plant

<u>Sample Nos.</u>	<u>Location</u>	<u>Dates collected</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
B1163, 1172, 1177	Sta. # 170	Oct., Nov., Dec., 1984	< 5	< 2
B1164, 1173, 1178	Sta. # 172	Oct., Nov., Dec., 1984	< 5	< 2

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- Notes: 1. Composites were prepared with equal amounts of each sample.  
2. Other results of analyses are given in previous monthly reports.

Table 2

Radioactivity Levels in Air Samples from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m<sup>3</sup></u>	<u>Radionuclide concen- tration, pCi/m<sup>3</sup></u>	
				<u>I-131</u>	<u>Gross beta</u>
B 1203 *	Cartridge Paper filter	Dead River Rd.	1,126	<0.006 -----	----- 0.011
B 1204*	Cartridge Paper filter	Substation	2,138	<0.003 -----	----- 0.006
B 1205*	Cartridge Paper filter	Plant Htch	817	<0.01 -----	----- 0.013
B 1223*	Cartridge Paper filter	Substation	2,383	<0.003 -----	----- 0.016
B 1224*	Cartridge Paper filter	Plant Hatch	900	<0.02 -----	----- 0.039
B 1225*	Cartridge Paper filter	Dead River Rd.	824	<0.01 -----	----- 0.042

- 
- Notes: 1. Samples B 1203-1205 were collected on January 28, 1985 after 31-day sampling; samples B 1223-1225 were collected on February 27, 1985 fter 30-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 3

Radioactivity Levels in Milk Samples from  
the Environment of the Hatch Nuclear Plant

<u>Sample #</u>	<u>Location</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B 1206*	Williamson	< 10	2.2	< 300	< 1
B 1207*	Johnson Bros.	< 6	1.6	< 300	< 2
B 1208*	GSP	< 10	1.7	< 300	8 $\pm$ 1
B 1214*	GSP	< 6	1.8	< 300	<0.8
B 1215*	Johnson Bros.	< 10	2.0	< 300	< 1
B 1216*	Williamson	< 10	2.0	< 300	< 1

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Notes: 1. Samples B 1206-1208 were collected on January 28, 1975:  
samples B 1214-1216 were collected on February 25, 1985.  
All were collected by Georgia Power Co. staff.

2. No other radionulides were detected (Ba-140 <20 pCi/l).

Table 4

Radioactivity Levels in Water Samples from  
the Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B 1209*	Sta. # 170	< 1	3 ± 2	< 300	< 1
B 1210*	Sta. # 172	3 ± 2	3 ± 2	< 300	< 2
B 1217*	Sta. # 172	2 ± 2	4 ± 2	< 200	<0.4
B 1218*	Sta. # 170	< 2	4 ± 2	< 200	<0.6

- 
- Notes: 1. Samples B 1209-1210 were collected December 26, 1984-January 28, 1985; samples B 1217-1218 were collected January 28 - February 25, 1985. All were collected by Georgia Power Co. staff.
2. I-131 was calculated as of the final collection day of the collection period.
3. No man-made photon-emitting radionuclides were detected in these samples (Cs-137 <pCi/l).

Table 5

Radioactivity Levels in Oyster Samples  
from the Environment of the Hatch Nuclear Plant

<u>Sample #</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Cs-137 Concentration pCi/kg</u>
B 1211	Egg Island-Altamaha # 1	0.13	< 200
B 1212	Little St. Simon to N. Side Little Egg Island	0.16	< 60
B 1213	Little Egg Island	0.14	< 200

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Note: 1. Samples were collected on November 19, 1984.

2. No other man-made photon-emitting radionuclides were detected.

Table 6

Radioactivity Levels in Water Composites from the  
Environment in Georgia of the Farley Nuclear Plant

<u>Sample Nos.</u>	<u>Location</u>	<u>Dates collected</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
F838, 852, 854	Indicator	Oct., Nov., Dec., 1984	< 5	< 2
F839, 851, 855	Background	Oct., Nov., Dec., 1984	< 5	< 2

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Note: 1. Composites were prepared with equal amounts of each sample.  
2. Other results of analyses are given in previous monthly reports.

Table 7

Radioactivity Levels in Oyster Samples  
from the Environment of the Kings Bay Nuclear Submarine Base

<u>Sample #</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Cs-137 Concentration, pCi/kg</u>
KB 205	Crooked River Cumberland #7	0.15	< 200
KB 206	Cedar Creek, St. Andrews	0.18	< 100

- 
- Notes: 1. Samples were collected on November 20,, 1984.
2. No other man-made photon-emitting radionuclides were detected.

Table 8

Radioactivity Levels in Oyster Samples  
from Background Locations

<u>Sample #</u>	<u>Location</u>	<u>Dry wt/ Wet wt/</u>	<u>Cs-137 Concentration, pCi/kg</u>
SB 16	Jubilation R. #2	0.15	< 100
SB 17	Mud River #2	0.18	< 200

- 
- Notes: 1. Samples were collected on November 20, 1984,  
2. No other man-made photon-emitting radionuclides were detected.



Table 9

Radioactivity Levels in Water Samples from  
the Environment in Georgia of the Sequoyah Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>
SQ 137	TLD #3, ground	< 2	< 3	< 300
SQ 138	TLD #10, ground	< 2	$2 \pm 2$	< 200

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Note: Samples were collected on February 27, 1985.

Table 10

Radioactivity Levels in Soil Samples from the  
Environment in Georgia of the Sequoyah Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>			
			<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
SQ 139	TLD # 3	0.83	< 80	3,500	700	800
SQ 140	TLD # 10	0.82	104	7,200	1,200	2,100

- 
- Notes: 1. Samples were collected on February 27, 1985
2. No other man-made photon-emitting radionuclides were detected.

Table 11

Radioactivity Levels in Grass Samples from the  
Environment in Georgia of the Sequoyah Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>	
			<u>Cs-137</u>	<u>Be-7</u>
SQ 141	TLD # 3	0.39	< 170	12,000
SQ 142	TLD # 10	0.37	< 80	16,000

- 
- Notes: 1. Samples were collected on February 27, 1985.
2. No other man-made photon-emitting radionuclides were detected.  
Be-7 is formed in nature.

Table 12

Radioactivity Levels in Water Composites from the  
Environment in Georgia of the Savannah River Plant

<u>Sample Nos.</u>	<u>Location</u>	<u>Dates collected</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
SR1730,1761, 1796	RM 146.7	Oct., Nov., Dec., 1984	< 5	< 2
SR1729,1764 1799	RM 150.4	Oct., Nov., Dec., 1984	< 5	< 2
SR1731,1760, 1797	RM 151.2	Oct., Nov., Dec., 1984	< 5	< 2
SR1728,1762, 1800	Port Went- worth raw composite	Oct., Nov., Dec., 1984	< 5	< 2
SR1763,1798,	N. Augusta raw composite	Nov., Dec., 1984	< 5	< 2
SR1724,1759, 1790	I & D Water	Oct., Nov., Dec., 1984	< 5	< 2
SR1712,1787	Hwy 301	Oct., Dec., 1984	< 5	< 2

- 
- Notes: 1. Composites were prepared with equal amounts of each sample.  
2. Other results of analyses are given in previous monthly reports.

Table 13

Radioactivity Levels in Water Samples from  
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Inches rainfall</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 1810	Hargrove Rd., rain	1.3	-----	-----	11,500+500	-----
SR 1811	GPC simulator rain	1.7	-----	-----	5,400+400	-----
SR 1812	Welcome Sta., rain	1.3	-----	-----	500+300	-----
SR 1813	Waynesboro, rain	1.3	-----	-----	9,500+400	-----
SR 1814	Augusta, rain	1.3	-----	-----	1,100+300	-----
SR 1815	Girard, rain	2.0	-----	-----	2,700+400	-----
SR 1816	Savannah R., Hwy 301	---	-----	-----	500+300	-----
SR 1858	Girard, rain	1.3	2 ± 2	4 ± 2	2,800+300	-----
SR 1859	GPC simulator, rain	3.3	2 ± 1	< 3	9,900+400	-----
SR 1860	Augusta, rain	3.3	2 ± 1	< 3	3,500+300	-----
SR 1861	Savannah River. Hwy 301	---	2 ± 1	< 3	<200	< 1
SR 1862	Welcome Sta., rain	3.3	< 2	< 3	<300	-----
SR 1863	Hargrove Rd., rain	---	< 2	3 ± 2	10,400+400	-----
SR 1864	Waynesboro, rain	3.3	3 ± 2	4 ± 2	3,300+300	-----
SR 1871	I & D Water Supply, Port Wentworth	---	4 ± 2	5 ± 2	1,900+300	< 1

Table 13 (Cont)

SR 1907	Savannah R.	R-2	< 2	3 ± 2	<300	< 2
SR 1908	Savannah R.	R-10	< 2	4 ± 2	4,000±300	< 3
SR 1909	Port Wentworth, raw composite	---	< 2	3 ± 2	3,500±300	-----
SR 1910	RM 150.4	---	< 2	2 ± 2	300±300	-----
SR 1911	RM 151.2	---	< 2	4 ± 2	600±300	-----
SR 1912	N. Augusta, raw composite	---	< 2	2 ± 2	300±300	-----

- 
- Notes: 1. Samples SR 1858-1864 were collected December 18, 1984, to January 24, 1985; sample SR 1871 was collected February 6-12, 1985; samples SR 1907-1908 were collected on February 19, 1985, by Savannah River Plant staff; samples SR 1909-SR1912 were collected January 9-February 13, 1985, by Georgia Power Co. staff.
2. I-131 was calculated as of the final day of the collection period.
3. No man-made photon-emitting radionuclides were detected in samples SR 1861,1871, and 1907-1912. (Cs-137 <pCi/l).
4. Some results for samples SR 1810-1816 wre reported in the preceding Monthly Report.

Table 14

Radioactivity Levels in Fish from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Type</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Cs-137, pCi/kg</u>	<u>H-3, pCi/l</u>
SR 1833	Largemouth bass	Augusta Lock, & Dam			
	edible		0.24	100	400+300
	inedible		0.34	<60	-----
SR 1834	Red Breast sunfish	Augusta Lock & Dam			
	edible		0.27	<100	400+300
	inedible		0.30	<100	-----
SR 1835	Yellow perch	Augusta Lock & Dam			
	edible		0.28	<60	500+300
	inedible		0.29	<60	-----
SR 1836	Spotted sucker	Augusta Lock & Dam			
	edible		0.28	210	400+300
	inedible		0.35	100	-----
SR 1837	Red breast sunfish	Upper Three Runs Creek			
	edible		0.33	81	2,600+300
	inedible		0.33	77	-----
SR 1838	Largemouth bass	Upper Three Runs Creek			
	edible		0.27	540	1,500+300
	inedible		0.39	200	-----
SR 1839	Spotted sucker	Upper Three Runs Creek			
	edible		0.30	130	2,000+300
	inedible		0.39	76	-----

Table 14 (cont)

SR 1840	Yellow perch	Upper Three Runs Creek			
	edible		0.33	130	1,800+300
	inedible		0.35	170	-----
SR 1841	Largemouth bass	Four Mile Creek			
	edible		0.25	1,500	10,700+400
	inedible		0.29	940	-----
SR 1842	Spotted sucker	Four Mile Creek			
	edible		0.29	1,100	36,600+600
	inedible		0.30	820	-----
SR 1843	Redbreast sunfish total	Four Mile Creek	0.29	94	13,100+400
SR 1844	Redbreast sunfish	Steel Creek			
	edible		0.27	630	4,100+300
	inedible		0.34	390	-----
SR 1845	Largemouth bass	Steel Creek			
	edible		0.26	4,000	5,300+300
	inedible		0.32	2,100	-----
SR 1846	Spotted sucker	Steel Creek			
	edible		0.30	630	3,100+300
	inedible		0.36	370	-----
SR 1847	Largemouth bass	Vogtle Discharge			
	edible		0.24	10,400	1,900+300
	inedible		0.25	4,500	-----



Table 14 (cont)

SR 1848	Redbreast sunfish	Vogtle Discharge			
	edible		0.29	140	1,700+300
	inedible		0.38	150	-----
SR 1849	Spotted sucker	Vogtle Discharge			
	edible		0.30	110	1,700+300
	inedible		0.32	<50	-----
SR 1850	Largemouth bass	Lower Three Runs Creek			
	edible		0.26	19,000	3,500+300
	inedible		0.35	9,000	-----
SR 1851	Spotted sucker	Lower Three Runs Creek			
	edible		0.29	4,900	3,100+300
	inedible		0.31	4,100	-----
SR 1852	Redbreast sunfish	Lower Three Runs Creek			
	edible		0.24	2,100	2,800+500
	inedible		0.32	1,100	-----

- 
- Notes: 1. Samples were collected on October 17, 1984, except that SR 1844, 1845, 1850, 1851 and 1852 were collected on October 30.
2. No other man-made photon-emitting radionuclides were detected.
3. Some Cs-137 results were reported in the preceding Monthly Report and are repeated here.

Table 15

Radioactivity Levels in Milk Samples from  
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 1853	Girard	< 5	2	---	---	---	<0.6
SR 1854	Waynesboro	< 5	< 2	---	---	---	< 1
SR 1855	Gracewood	< 5	3	---	---	---	< 1
SR 1904	Waynesboro	---	---	< 6	1.7	400+300	<0.9
SR 1905	Girard	---	---	< 6	1.6	1,400+300	<0.5
R 1906	Gracewood	---	---	<10	1.9	600+300	<0.8

- 
- Notes: 1. Samples SR1904-1906 were collected on February 21, 1985 by Savannah River Plant staff.
2. Other results of analyses for samples SR 1853-1855 are given in the report for January, 1985.
3. No other radionuclides were detected (Ba-140 <pCi/l).

Table 16

Radioactivity Levels in Air Samples from the  
Environment in Georgia of the Savannah River Plant

Sample No.	Sample type	Location	Volume, m <sup>3</sup>	Radionuclide concentration, pCi/m <sup>3</sup>		
				I-131	Gross alpha	beta
SR 1865	Cartridge Paper filter	Welcome Ctr.	929	< 0.01 -----	----- 0.002	----- 0.009
SR 1866	Cartridge Paper filter	Girard	2652	<0.004 -----	----- 0.005	----- 0.031
SR 1867	Cartridge Paper filter	Hargrove Rd.	1494	< 0.01 -----	----- <0.001	----- 0.002
SR 1868	Cartridge Paper filter	Simulator	2412	<0.004 -----	----- <0.001	----- 0.003
SR 1869	Cartridge Paper filter	Simulator	1063	<0.007 -----	----- <0.001	----- 0.005
SR 1870	Cartridge Paper filter	Augusta	2434	<0.004 -----	----- <0.001	----- 0.002

- 
- Notes: 1. Samples were collected on January 23, 1985 after 35-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 17

Radioactivity Levels in Milk Samples from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Dairy</u>	<u>Location</u>	<u>H-3, pCi/l</u>
SR 1872	Diadem # 1297	Midville	600+300
SR 1873	C&E Dairy #0540	Girard	<300
SR 1874	Clyde Dixon #0452	Girard	1,300+300
SR 1875	Saxon Farm #1874	Midville	600+300
SR 1876	S&B Dairy #1781	Midville	800+300
SR 1877	Gatliff Dairy #F1333	Burke Co.	400+300
SR 1878	Le-Nel #F1295	Burke Co.	1,000+300
SR 1879	Harlo #F1331	Burke Co.	700+300
SR 1880	Horstcrest Dairy #F1321	Burke Co.	800+300
SR 1881	Boyceland Dairy #0146	Blythe	800+300
SR 1882	Borden #DD12	Augusta	<200
SR 1883	J.L. Steed #1980	Grovetown	600+200
SR 1884	L.B. Anderson #0166	Augusta	200+200
SR 1885	Borden #30	Sylvania	700+200
SR 1886	Alex Saxon #1913	Sylvania	<300
SR 1887	Foxridge #0666	Sylvania	<300
SR 1888	Ronald Word #2311	Sylvania	<300
SR 1889	H.E. Pierce #1653	Millen	<300
SR 1890	Godbee Farms #0756	Millen	<300
SR 1891	Gerald Chance #0403	Millen	<300
SR 1892	Clark Cattle Co. #0547	Millen	<300
SR 1893	George Parker #1588	Millen	<300

Table 17 (cont)

SR 1894	Four Bells #0663	Millen	<300
SR 1895	Herrington Farm #0947	Millen	<300
SR 1896	James Saxon #1778	Millen	<300
SR 1897	R.K.R. Dairy #1803	Millen	400+300
SR 1898	Rolling Acres #1832	Louisville	300+300
SR 1899	Richard Johnson #1053	Louisville	<300
SR 1900	Joan Peters #1682	Louisville	<300
SR 1901	Melvin Unruh #2166	Louisville	<300
SR 1902	Hillcrest #0892	Louisville	400+300
SR 1903	Twin Oaks #2088	Louisville	<300

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Note: Samples were collected February 4-6, 1985.

Table 18

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8410 ... OCTOBER COMPLETE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
13638	4379 IVEY, CITY OF	WILKINSON	9-26-84	8410	4.003	2 + 1			
05441	4380 COLONIAL CLUB EST.	FORSYTH	9-17-84	8410	4.003	< 2			
05819	4381 ROYSTON, CITY OF	FRANKLIN	8-24-84	8410	1.000	< 1			
10643	4382 RAB.GAP-NOOCHEE SCH	RABUN	8-17-84	8410	1.000	< 1			
17743	4383 PINE HILL MHP	TIFT	9-21-84	8410	3.000	95 + 5	15.1	< 1.0	< 2
16548	4384 WINDWARD ACRES S/D	GLYNN	6-20-84	8410	1.000	< 2			
12021	4385 TY TY, TOWN OF	TIFT	9-21-84	8410	1.000	< 2			
08415	4386 MEADOWDALE MHP	LAURENS	9-18-84	8410	1.000	< 2			
17453	4387 PECAN HAVEN MHP	PEACH	9-21-84	8410	1.000	< 2			
13741	4388 WORTH CO. CORR. INST	WORTH	9-25-84	8410	1.000	< 2			
12030	4389 AEE BALDWIN AGR COLL	TIFT	9-21-84	8410	1.000	8 + 2	1.9	< 1.0	
25371	4390 CARNIGAN WATER ASSN	MCINTOSH	9-25-84	8410	1.000	< 2			
20460	4391 WOODLAND MHP	GLYNN	6-20-84	8410	1.000	< 2			
01541	4392 ST. MARY'S, CITY OF	CAMDEN	9-26-84	8410	1.000	< 2			
08555	4393 PLANTATION MHP	LEE	9-17-84	8410	1.000	< 2			
11915	4394 MEIGS, CITY OF	THOMAS	9-26-84	8410	1.000	< 3			
05146	4395 BROOKS, CITY OF	FAYETTE	9-15-84	8410	1.000	53 + 4	1.0	1.2	70 + 6
10444	4396 MOLENA, CITY OF	PIKE	8-23-84	8410	1.000	132 + 9	0.5	< 1.0	176 + 14
15846	4397 SEMINOLE MHP	CLARKE	9-13-84	8410	1.000	25 + 2			
05873	4398 BRITTANY HARBOR #2	FRANKLIN	9-18-84	8410	1.000	62 + 8			
03130	4399 ROYAL COURT MHP	CLAYTON	8-23-84	8410	1.000	24 + 2			
05146	4400 BROOKS, CITY OF	FAYETTE	8-15-84	8410	1.000	53 + 4			
15815	4401 CANE CREEK TP	LUMPKIN	8-2-84	8410	1.000	< 3			
10444	4402 MOLENA, CITY OF	PIKE	8-23-84	8410	1.000	106 + 4			
07003	4403 LANIER SAILING CLUB	HALL	9-30-84	8410	1.000	11 + 2			
10444	4404 MOLENA, CITY OF	PIKE	8-23-84	8410	1.000	122 + 6			
03130	4405 ROYAL COURT MHP	CLAYTON	8-23-84	8410	1.000	26 + 3	1.4	< 1.0	17 + 2
15815	4406 CANE CREEK TP	LUMPKIN	8-2-84	8410	1.000	< 2			
10444	4407 MOLENA, CITY OF	PIKE	8-23-84	8410	1.001	126 + 5			
05873	4408 BRITTANY HARBOR #2	FRANKLIN	9-18-84	8410	1.000	43 + 5	12.8	1.7	18 + 1
5846	4409 SEMINOLE MHP	CLARKE	9-13-84	8410	1.000	24 + 2	7.0	< 1.0	18 + 1
05873	4410 BRITTANY HARBOR #2	FRANKLIN	9-18-84	8410	1.000	52 + 5			
07003	4411 LANIER SAILING CLUB	HALL	9-30-84	8410	1.000	9 + 2	< 0.1	< 1.0	
8111	4412 COLONIAL EST. MHP#2	WAYNE	10-4-84	8410	1.000	2 + 1			
6501	4413 BRITTANY HARB. WEST	FRANKLIN	9-18-84	8410	3.000	9 + 2	2.5	6.1	
7653	4414 BRASWELL, CITY OF	PAULDING	10-4-84	8410	4.000	2 + 1			
1079	4415 HILTONIA, CITY OF	SCREVEN	9-26-84	8410	1.000	< 2			
8496	4416 GREEN ACRES MHP	SCREVEN	9-25-84	8410	1.000	< 2			
3112	4417 LAZY ACRES TP	WARE	10-4-84	8410	1.001	3 + 1			
4277	4418 PO' ROBIN MHP	SCREVEN	9-25-84	8410	1.000	< 2			
7341	4419 TUGALOO BAY	HART	9-18-84	8410	3.000	13 + 3	1.3	< 1.0	14 + 1
0880	4420 MOBILE HOME C. CLUB	RICHMOND	9-26-84	8410	1.000	< 2			
1427	4421 FERNWOOD MHP	BROOKS	9-18-84	8410	4.000	4 + 2	4.5	< 1.0	
7391	4422 MEADOWBROOK MHP	NEWTON	10-10-84	8410	4.000	< 2			
018	4423 MOBILE HOME EST.	LOWNDES	9-27-84	8410	1.000	< 2			
067	4424 BAILEY MHP	TIFT	10-10-84	8410	1.000	2 + 2			
625	4425 LEE WATERS MHP	WAYNE	10-4-84	8410	1.000	< 3			
249	4426 COLONIAL EST. MHP #1	WAYNE	10-4-84	8410	1.000	< 2			
560	4427 EDGEWOOD MHP	JEFF DAVIS	9-27-84	8410	1.000	8 + 2	1.2	< 1.0	
035	4428 ALLMONDS TP	MONTGOMERY	10-3-84	8410	1.000	10 + 2	5.0	< 1.0	

TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
 COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE 26

## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8410 ... OCTOBER COMPLETE

	SAMPLE WS #	LOCATON	COUNTY	COLLECT DATE	LAB DATE	TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
37239	4429	PAYNE'S MHP	CHEROKEE	8-10-84	8410	1.000	< 2			
08284	4430	MODTIOSE, CITY OF	LAURENS	10 -2-84	8410	1.000	3 + 1			
14063	4431	COLONIAL ACRES S/D	LEE	10 -5-84	8410	1.000	< 2			
03277	4432	FAIRWAYS VILLA MHP	COEB	8-10-84	8410	1.000	2 + 2			
14040	4433	OAKLAND MHP	CHEROKEE	8-10-84	8410	1.000	< 2			
19733	4434	CANAUGA SD	LEE	10 -5-84	8410	1.000	< 2			
10206	4435	MAXEYS, CITY OF	OGLETHORPE	10 -5-84	8410	6.002	29 + 3	1.4	1.3	45 + 4
05511	4436	GREEN ACRES MOB EST	COLQUITT	10-10-84	8410	1.000	2 + 1			
09840	4437	MOUNT VERNON, CITY	MONIGOMERY	10 -3-84	8410	1.000	< 3			
14081	4438	COUNTRY VILLA SD	LEE	10-10-84	8410	1.000	< 2			
14273	4439	CR STANFORD APTS.	LIBERTY	10-17-84	8410	1.000	< 2			
25141	4440	NEIHER MHP	WORTH	10-11-84	8410	1.000	< 3			
15048	4441	PLEASANT HILL MHP	WORTH	10-11-84	8410	1.000	< 2			
08500	4442	DIXON MHP	LEE	10-10-84	8410	1.000	< 2			
01323	4443	WALKER'S TP	BERRIEN	10-15-84	8410	1.000	< 2			
17336	4444	W D STANFORD MHP	LIBERTY	10-16-84	8410	1.000	< 2			
22750	4445	FOSS MHP	CHATHAM	10-15-84	8410	1.000	< 2			
109703	4446	CAMILLA, CITY OF	MITCHELL	10 -9-84	8410	1.000	< 2			
01027	4447	BROCKLET, CITY OF	BULLOCH	10-11-84	8410	1.000	< 3			
12979	4448	WARE CO. WATER SYST.	WARE	10 -4-84	8410	1.000	2 + 2			
124276	4449	MURRAY TP	WAYNE	10 -4-84	8410	1.000	< 2			
120899	4450	DANIEL VILLAGE MHP	CANDLER	10-11-84	8410	1.000	< 2			
02053	4451	AZALEA MHP	CHATHAM	10-15-84	8410	1.000	< 2			
06252	4452	CABANA COURT MHP	GLYN	10-19-84	8410	1.000	2 + 1			
07814	4453	NICHOLSON W. S.	JACKSON	10 -3-84	8410	3.000	3 + 1			
13146	4454	CAMAK, CITY OF	WARREN	10-12-84	8410	1.000	28 + 3	1.1	< 1.0	67 + 5

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## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8411 ... NOVEMBER INCOMPLETE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
15012	4455 SADDLE BAGS MHP	LOWNDES	10-25-84	8411	1.000	2 + 1			
15137	4456 WRIGHTS TP	LOWNDES	10-18-84	8411	1.000	2 + 1			
13378	4457 GLENWOOD, CITY OF	WHEELER	10-30-84	8411	1.000	3 + 1			
22692	4458 NORWOOD, CITY OF	WARREN	10-30-84	8411	1.000	2 + 1			
08848	4459 CA CHRISTIAN SCHOOL	LOWNDES	10-29-84	8411	1.000	2 + 1			
04278	4460 ALBANY	DOUGHERTY	10-31-84	8411	1.000	< 1			
12198	4461 VIDALIA, CITY OF	TOOMBS	10-25-84	8411	1.000	3 + 1			
27450	4462 ANGLER'S COVE ASSN	LIBERTY	10 0-84	8411	4.001	< 1			
15120	4463 AVONDALE MHP	BIBB	10-25-84	8411	1.000	3 + 1			
05785	4464 CARNESVILLE, CITY OF	FRANKLIN	10-31-84	8411	4.004	3 + 1			
08811	4465 LAKE PARK, CITY OF	LOWNDES	10-25-84	8411	1.000	< 1			
20799	4466 CIRCLE	THOMAS	10-29-84	8411	4.003	3 + 1			
17011	4467 RUNAWAY POINT S/D	CHATHAM	10-16-84	8411	1.000	< 2			
03335	4468 DOUGLASS, CITY OF	COFFEE	10-25-84	8411	1.000	4 + 1	2.7		
22556	4469 WHITE MARSH ISLAND	CHATHAM	10-16-84	8411	1.000	< 1			
13369	4470 ALAMO, CITY OF	WHEELER	10-30-84	8411	1.000	82 + 3	17.6	1.6	< 2
02211	4471 HARBOR CREEK S/D	CHATHAM	10-26-84	8411	1.000	< 1			
14824	4472 MOUNTVILLE, CITY OF	TROUP	10 -5-84	8411	6.001	2 + 1			
08564	4473 GREENVIEW MHP	LEE	11 -2-84	8411	1.000	< 1			
05584	4474 SANDS MHP	COLQUITT	11 -5-84	8411	1.000	4 + 1	2.0		
14665	4475 WOODLAND LAKE S/D	LIBERTY	10-17-84	8411	1.000	< 1			
14533	4476 CANAL RD. MHP	GLYNN	10-23-84	8411	1.000	< 1			
08528	4477 LAKEVIEW MHP	LEE	11 -2-84	8411	1.000	< 1			
27876	4478 KEYRIDGE MHP	LEE	11 -2-84	8411	1.000	< 1			
15846	4479 SEMINOLE MHP	CLARKE	11 -6-84	8411	3.000	26 + 2	7.9	1.5	
11906	4480 COOLIDGE, CITY OF	THOMAS	11 -1-84	8411	1.000	4 + 2	1.3		
01801	4481 FORT MCINTOSH WTR S	FRANKLEY	10-25-84	8411	1.000	2 + 1			
08701	4482 LAKE GEORGE S/D	LIBERTY	10-17-84	8411	1.000	< 1			
18388	4483 RIVER BEND S/D	CHATHAM	10-16-84	8411	1.000	< 2			
02431	4484 THE BLUFF S/D	CHATHAM	10-23-84	8411	1.000	< 2			
22248	4485 THE LANDINGS S/D	CHATHAM	10-26-84	8411	1.000	< 2			
14824	4486 MOUNTVILLE, CITY OF	TROUP	11 -5-84	8411	6.000	4 + 1	0.3		
14824	4487 MOUNTVILLE, CITY OF	TROUP	11 -5-84	8411	4.003	14 + 2	2.3	4.0	
37909	4488 TURFLE COVE	JASPER	11 -1-84	8411	4.009	< 2			
18125	4489 BUTCH'S TP	PEACH	11 -8-84	8411	1.000	2 + 2			
17241	4490 ROSE CITY MHP	THOMAS	11 -9-84	8411	3.000	3 + 2	0.9		
1577	4491 WHISPERING PINE EST	TIFT	11 -9-84	8411	6.000	19 + 3	9.0	< 1.0	
5557	4492 PINEY GROVE S/D	COLQUITT	11 -6-84	8411	1.000	< 2			
8936	4493 DAYLEY'S MHP	LOWNDES	11 -6-84	8411	1.000	< 2			
4985	4494 REGISTER MHP	LOWNDES	11 -6-84	8411	1.000	< 2			
3216	4495 SANDERSVILLE, CITY OF	WASHINGTON	11-13-84	8411	4.004	2 + 2			
7717	4496 FAWN HEIGHTS S/D	FROCKS	11 -8-84	8411	4.001	< 2			
6708	4497 BAREERRY HILLS S/D	FORSYTH	10-31-84	8411	4.003	9 + 2	0.6		
6543	4498 EULONIA W.S.	MCINTOSH	10-13-84	8411	4.000	< 2			
3130	4499 ROYAL COURT MHP	CLAYTON	11-16-84	8411	6.000	34 + 3	9.5		
8519	4500 KINCHAFONNEE MHP	LEE	11 -5-84	8411	1.000	< 1			
1936	4501 OAK RIDGE TP	TIFT	11 -9-84	8411	6.000	570 + 7	11.3		
5723	4502 JONES MHP	GWINNETT	11-19-84	8411	4.002	2 + 2			
2427	4503 ASHBURN, CITY OF	TURNER	11-15-84	8411	4.005	< 1			
####	4504 WINDY CREEK S/D		11-24-84	8411	4.002	3 + 1			

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RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8411 ... NOVEMEER INCOMPLETE

#	SAMPLE WS #	LOCATION	COUNTY	COLLECT	LAB	TYPE/. WELL	GROSS	RA-	RA-	URANIUM
				DATE	DATE		ALPHA PCI/L	226 PCI/L	228 PCI/L	
#####	4505	FAMILY LIFE ENR CENT		11-24-84	8411	4.002	< 1			
#####	4506	WINDY CREEK S/D		11-24-84	8411	4.001	1 + 1			
22718	4507	FAMILY LIFE ENR CENT	OONEE	11-24-84	8411	4.001	3 + 1			

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## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8412 ... DECEMBER INCOMPLETE

	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAP DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
007927	4508	HAZLEHURST, CITY OF	JEFF DAVIS	11-26-84	8412	4.001	9 + 2	3.8		
727762	4509	PLANTATION ACRES MHP	MCDUFFIE	11-16-84	8412	4.000	< 1			
333744	4510	ELDER HEIGHTS	OCONEE	11-27-84	8412	4.002	< 1			
018852	4511	WALTHOURVILLE, CITY	LIBERTY	11-27-84	8412	4.002	< 1			
08104	4512	GRAY, CITY OF	JONES	11-26-84	8412	4.008	16 + 2			
08104	4513	GRAY, CITY OF	JONES	11-16-84	8412	4.009	36 + 3	0.8		
08616	4514	LEE CO. CORR. INST.	LEE	11-14-84	8412	1.000	< 1			
27382	4515	MOBILE MANOR ESTATE	PEACH	11-16-84	8412	1.000	< 2			
03649	4516	GROVETOWN, CITY OF	COLUMBIA	11-19-84	8412	1.000	2 + 1			
721980	4517	SANDY PINES MHP	LAURENS	11-20-84	8412	1.000	< 1			
08467	4518	LEESBURG, CITY OF	LEE	11-27-84	8412	1.000	< 1			
720510	4519	TIFT AREA MHP	TIFT	11-14-84	8412	1.000	2 + 2			
08591	4520	LEE HIGH ACRES S/D	LEE	11-27-84	8412	1.000	< 1			
735354	4521	SPRING VALLEY S/D	NEWTON	8-14-84	8412	1.000	210 + 6	17.5		
04158	4522	ATTAPULGUS, CITY OF	DECATUR	11-20-84	8412	3.001	13 + 2			
712137	4523	WILSON'S MHP	TIFT	11-14-84	8412	1.000	< 1			
221845	4524	BARRETS MHP	LOWNDES	11-13-84	8412	1.000	< 1			
121056	4525	ROLLING HILLS MHP	PEACH	11-19-84	8412	1.000	< 1			
209072	4526	RIVER PARK	LOWNDES	10-16-84	8412	1.000	4 + 1			
322510	4527	M & T WATER WORKS	TOOMES	11-27-84	8412	6.000	12 + 2			
21683	4528	PEEBLE HILL PLANT.	THOMAS	11-27-84	8412	1.000	4 + 2			
714643	4529	ROUMIREE'S MHP	LAURENS	11-20-84	8412	1.000	< 1			
08537	4530	LEE ESTATES	LEE	11-28-84	8412	1.000	< 1			
04158	4531	ATTAPULGUS, CITY OF	DECATUR	11-20-84	8412	3.000	27 + 3			
19833	4532	MEADOW HAVEN MHP	HOUSTON	11-27-84	8412	6.000	44 + 2	12.5		
12771	4533	LAFAYETTE, CITY OF	WALKER	12 -4-84	8412	0.000	< 1			
23675	4534	DE LAIGLE MHP	BURKE	12 -3-84	8412	4.003	< 1			
16694	4535	BOWEN MHP	MITCHELL	11-29-84	8412	1.000	2 + 2			
38435	4536	WHITMER MHP	LOWNDES	11-29-84	8412	1.000	< 1			
#####	4537	ANGLO-AMER. CLAY CO.		11-29-84	8412	4.000	2 + 1			
27545	4538	KINGSWOOD S/D	JACKSON	11-26-84	8412	1.000	< 1			
08963	4539	FOXBOROUGH S/D	LOWNDES	11-27-84	8412	1.000	< 2			
10698	4540	CUTHBERT, CITY OF	RANDOLPH	12 -6-84	8412	4.000	< 1			
35070	4541	STEWART'S MHP	JACKSON	12 -6-84	8412	1.000	< 1			
17597	4542	CRABAPPLE HILL S/D	THOMAS	12 -4-84	8412	1.000	< 1			
19684	4543	INDIGO MOBILE ESTATE	SCREVEN	12 -4-84	8412	1.000	< 1			
16381	4544	CINDY DRIVE S/D	THOMAS	12 -4-84	8412	1.000	3 + 1			
05609	4545	YANCEY TRAILER RENT.	COLQUITT	12 -5-84	8412	1.000	< 1			
3979	4546	SHERWOOD FOREST MHP	PEACH	12 -6-84	8412	1.000	< 1			
11103	4547	SYLVANIA, CITY OF	SCREVEN	12 -5-84	8412	1.000	< 1			
5815	4548	CANE CREEK TP	LUMKIN	11-27-84	8412	3.000	< 1			
0216	4549	MAYSVILLE, CITY OF	BANKS	12-12-84	8412	1.000	< 1			
0610	4550	INDIAN BRANCH MHP	SCREVEN	10-24-84	8412	1.000	6 + 2			
0017	4551	BAXLEY, CITY OF	APPLING	12 -6-84	8412	4.004	9 + 2	2.0		
0207	4552	HOMER, CITY OF	BANKS	12-12-84	8412	1.000	8 + 2			

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RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8501 ... JANUARY INCOMPLETE

#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
527862	4553	ANNEEWAKEE N.SYST. 2	FOLK	1 -3-85	8501	4.002	7 + 2	0.9		
511524	4554	PLAINS, CITY OF	SUMTER	1 -4-84	8501	4.006	8 + 2			
527871	4555	ANNEEWAKEE N.SYST. 2	FOLK	1 -3-85	8501	4.001	< 1			
511524	4556	PLAINS, CITY OF	SUMTER	1 -4-85	8501	4.005	3 + 1			
526238	4557	HIDDEN ACRES S/D	THOMAS	1 -8-85	8501	4.000	< 1			
543325	4558	ROBINS AFB	HOUSTON	12-14-84	8501	1.000	3 + 1			
517241	4559	ROSE CITY MHP	THOMAS	12-12-84	8501	3.000	3 + 1			
714616	4560	WOODLAND TRAILS MHP	LAURENS	1 -3-85	8501	1.000	2 + 2			
000466	4561	ALAPAHA, CITY OF	BERRIEN	12-19-84	8501	3.000	25 + 3			
713887	4562	THUNDERNG SPRING INC	LAURENS	12-18-84	8501	1.000	< 2			
508223	4563	LAKELAND, CITY OF	LANIER	12-19-84	8501	1.000	4 + 1			
708433	4564	TARPLEY'S MHP	LAURENS	12-18-84	8501	1.000	< 1			
109721	4565	PELHAM, CITY OF	MITCHELL	12-19-84	8501	1.000	2 + 1			
925105	4566	CONGER MHP	WORTH	12-11-84	8501	1.000	2 + 1			
507341	4567	TUGALOO BAY	HART	12-21-84	8501	3.000	18 + 3			
126132	4568	DAIRY TRACT	JEFFERSON	12-20-84	8501	1.000	< 2			
217279	4569	SCHROER ESTATES	LOWNDES	12-17-84	8501	1.000	< 2			
516495	4570	BRITANNY HARBOR SOU.	FRANKLIN	12-21-84	8501	3.000	61 + 7			
000475	4571	ENIGMA, CITY OF	BERRIEN	12-19-84	8501	3.000	7 + 1			
#####	4572	WHITE WATER CREEK		1-17-85	8501	4.001	43 + 4			
214967	4573	PINE CIRCLE T/P	LOWNDES	1-15-85	8501	4.002	< 2			
239812	4574	KINGS GAP UTILITYS	HARRIS	1-14-85	8501	4.000	< 1			
#####	4575	QUEENSLAND COMM		1-15-85	8501	4.001	3 + 1			
724877	4576	EL DORADO WATER SUPP	TIFT	1-16-85	8501	4.000	2 + 1			
712155	4577	TIFTON IND. PARK	TIFT	1-16-85	8501	4.004	20 + 3			
712155	4578	TIFTON IND. PARK	TIFT	1-16-85	8501	4.005	79 + 5			
808476	4579	SMITHVILLE, CITY OF	LEE	1-17-85	8501	1.000	< 1			
825783	4580	WINDING WAY EST.	QUITMAN	1-22-85	8501	1.000	< 1			
712605	4581	SIZLAND T/P	IRWIN	1-16-85	8501	1.000	< 1			
724251	4582	CAMPELL WATER SYST	DOUGHERTY	1 -7-85	8501	1.000	< 1			
25004	4583	FOXGROFT S/D	THOMAS	1 -4-85	8501	1.001	2 + 2			
36224	4584	LEE VILLA S/D	LEE	1-22-85	8501	1.000	< 1			
717065	4585	FOREST ESTATES S/D	IRWIN	1-16-85	8501	1.000	< 2			

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## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8502 ... FEBRUARY INCOMPLETE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
00800	4586 ALLATOONA MHP	BARTOW	1-29-85	8502	4.004	3 + 1			
37607	4587 TROUP CREEK MARINA	GLYNN	1-23-85	8502	4.000	2 + 1			
34953	4588 SPRING VALLEY S/D	NEWTON	1-25-85	8502	4.000	216 + 8			
00800	4589 ALLATOONA MHP	BARTOW	1-29-85	8502	4.003	5 + 1			
11063	4590 ELLAVILLE, CITY OF	SCHLEY	1-24-85	8502	4.005	2 + 1			
37653	4591 WILDWOOD ESTATES	WALTON	1-25-85	8502	4.000	4 + 1			
06869	4592 RED BARN MHP	DECATUR	1-28-85	8502	1.000	3 + 1			
08555	4593 PLANTATION MHP	LEE	1-23-85	8502	1.000	< 1			
08909	4594 BAILEY'S MHP	LOWNDES	1-24-85	8502	1.000	2 + 1			
321801	4595 FLINTWOOD S/D	DECATUR	1-28-85	8502	1.000	< 1			
32428	4596 QUAIL RIDGE NTH S/D	FORSYTH	1-21-85	8502	1.000	< 1			
007058	4597 SHADY GROVE TP	HALL	1-30-85	8502	1.000	2 + 1			
22955	4598 WATSON TP	TURNER	1-23-85	8502	1.000	1 + 1			
12454	4599 BROWN'S W.S.	TURNER	1-23-85	8502	1.000	2 + 1			
33236	4600 DIXIE MHP	HALL	1-30-85	8502	1.000	3 + 1			
227935	4601 PARADISE MHP	LOWNDES	2 -1-85	8502	4.001	4 + 2			
27899	4602 THE BLUFF-BELLE ISLE	FRYAN	1 -7-85	8502	4.001	< 2			
26664	4603 DEFRICK S/D	CHATHAM	1-29-85	8502	4.000	< 2			
03797	4604 COOK'S MHP	CARROLL	1 -5-85	8502	4.002	< 2			
812736	4605 PARDUE'S MHP	JACKSON	1-30-85	8502	4.003	6 + 2			
812736	4606 PARDUE'S MHP	JACKSON	2 -1-85	8502	4.004	6 + 2			
007094	4607 MILLIKEN AND CO.	HALL	1-31-85	8502	1.000	< 2			
007685	4608 MILLIKEN AND CO.	HALL	1-31-85	8502	1.000	< 2			
37849	4609 HALL CO. CORRECTIONS	HALL	1-31-85	8502	1.000	2 + 1			
08494	4610 BIG OAK S/D	LEE	2 -4-85	8502	1.000	< 2			
15148	4611 PALMYRA MHP	LEE	2 -4-85	8502	1.000	< 1			
09444	4612 BROWN EGGS. FARM S/D	MADISON	2 -6-85	8502	4.006	3 + 1			
16000	4613 THE OAKS NURSE HOME	MACON	2 -5-85	8502	4.002	3 + 1			
14297	4614 MOBILEWORLD-FOREST	ETHE	2 -7-85	8502	4.007	< 2			
24488	4615 ARCADE MHP	JACKSON	2 -7-85	8502	1.000	< 2			
13030	4616 JACKSON CO. CORR INS	JACKSON	0 0-85	8502	1.000	3 + 1			
14586	4617 CROOKED CREEK VILL.	JACKSON	0 0-85	8502	1.000	5 + 1			
14941	4618 CHAMBER'S MHP	LEE	2 -5-85	8502	1.000	< 2			
21750	4619 BAR W MHP	TIFT	2 -5-85	8502	1.000	< 2			
07814	4620 NICHOLSON W.A.	JACKSON	2 -7-85	8502	1.000	3 + 1			
13012	4621 THE POTTER'S HOUSE	JACKSON	2 -7-85	8502	1.000	4 + 1			
16501	4622 BRITTANY HARBOR WEST	FRANKLIN	12-21-84	8502	3.000				
07828	4623 PINE HAVEN MHP	JACKSON	2 -5-85	8502	1.000	14 + 2			
07799	4624 HOSCHTON, CITY OF	JACKSON	2 -4-85	8502	1.000	< 2			
7743	4625 PINE HILL MHP	COOK	2-11-85	8502	3.000				
4167	4626 BAINBRIDGE, CITY OF	DECATUR	2-11-85	8502	1.000	< 2			
6292	4627 NEWARK W.S.	THOMAS	2 -7-85	8502	1.000	< 2			
2146	4628 BOWEN-WRIGHT S/D	TIFT	2 -5-85	8502	1.000	< 2			
3705	4629 SYLVESTER, CITY OF	WORTH	1-31-85	8502	1.002	< 2			
3699	4630 SUMNER, CITY OF	WORTH	2 -5-85	8502	1.001	10 + 2			
1439	4631 LUMPKIN, CITY OF	STEWART	1-31-85	8502	1.000	2 + 1			
7484	4632 COLONY MHP	JACKSON	2 -5-85	8502	1.000	2 + 1			
9009	4633 MINEOLA MHP	LOWNDES	2 -7-85	8502	1.001	< 2			
1839	4634 BRONWOOD, CITY OF	TERRELL	1-31-85	8502	1.000	< 2			
9742	4635 BRENIWOOD NORTH S/D	LEE	2 -4-85	8502	1.000	2 + 1			

TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER

COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8502 ... FEBRUARY INCOMPLETE

SAMPLE WS #	LOCATION	COUNTY	COLLECT		TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
			DATE	LAB DATE					
208893	4636 ACADEMY ACRES S/D	LOWNDES	2-14-85	8502	1.001	3 + 1			
#####	4637 WHITEWATER CREEK DEV		2 -7-85	8502	4.002				
826549	4638 BALD RIDGE ON LANIER	FORSYTH	2 -6-85	8502	1.000	< 1			
811457	4639 RICHLAND, CITY OF	STEWART	2-14-85	8502	1.000	< 1			

ES: TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

Table 19

TAVESVILLE ROBERT DAWSON'S AREA

TLD NETWORK

THIS OUT 840619  
 THIS CCL 850707  
 THIS HEAD 850311  
 THIS TTI 0/15/84  
 THIS --POST TESTING !!!!!!!!!!!!!!!  
 THIS EFFICIENT TRICHLOR

FEELT THIS= 840619 TO 850707 = 261 DAYS... HEAD 850311

TLD TACTI = TTTT ... 11.00 (+-) 1.10 PR/NO CAL.  
 CURRENT IN-TRANSIT CONTROL CONTROL THIS DTI 6 MAY85

CHIEF #	1	2	3	4	5	6
1ST HEAD	0.163	0.133	0.130	0.132	0.149	0.171
2ND HEAD	0.087	0.067	0.049	0.051	0.061	0.062

	TTIC	TTIC	IF	NIC.F/FF	FF/DAY	FF/YR
HEAD :	0.070	0.070	0.772	0.000	0.000	0.000
559 UIC. :	0.070	0.070	0.738	0.000	0.000	0.000

IMPROVED STATISTICS: ELIMINATION DATA FOR CHIEF # 4

	TTIC	TTIC	IF	NIC.F/FF	FF/DAY	FF/YR
HEAD :	0.076	0.076	0.836	0.000	0.000	0.000
559 UIC. :	0.046	0.046	0.192	0.000	0.000	0.000

AVERAGE IN-TRANSIT CONTROL

	TTIC	TTIC	IF	NIC.F/FF	FF/DAY	FF/YR
HEAD :	0.076	0.076	0.836	0.000	0.000	0.000
559 UIC. :	0.046	0.046	0.192	0.000	0.000	0.000

TLD 47

CHIEF #	1	2	3	4
1ST HEAD	4.786	4.037	4.535	4.474
2ND HEAD	0.027	0.040	0.033	0.048

	IC	IC-TTIC	IF	NIC.F/FF	FF/DAY	FF/YR
HEAD :	4.520	4.444	48.879	7.803	0.187	6.355
559 UIC. :	0.099	0.030	6.087	0.972	0.023	6.513

IMPROVED STATISTICS: ELIMINATION DATA FOR CHIEF # 2

	IC	IC-TTIC	IF	NIC.F/FF	FF/DAY	FF/YR
HEAD :	4.429	4.753	47.883	7.644	0.187	6.963
559 UIC. :	0.117	0.116	4.961	0.792	0.019	6.938

34

TLD 4 TAVESVILLE

CHIEF #	1	2	3	4
1ST HEAD	6.590	6.675	7.045	7.154
2ND HEAD	0.036	0.033	0.048	0.020

	NC	NC-ITNC	IF	INC.F/IF	IF/DAY	IF/YF
IFAT	0.830	0.757	74.257	11.807	0.285	103.901
95% UNC. :	0.478	0.478	9.102	1.453	0.035	12.729

IMPROVED STATISTICS: ELIMINATION DATA FOR CHIP # 4

	NC	NC-ITNC	IF	INC.F/IF	IF/DAY	IF/YF
IFAT	0.731	0.655	73.205	11.087	0.280	102.374
95% UNC. :	0.383	0.383	8.448	1.349	0.032	11.817

IFAT STATISTICS...CHECK DATA

III 5 IAV

CHIP #	1	2	3	4
1ST FEAT	5.816	5.778	5.490	6.084
2ND FEAT	0.039	0.042	0.046	0.039

	NC	NC-ITNC	IF	INC.F/IF	IF/DAY	IF/YF
IFAT	5.751	5.675	62.470	9.965	0.239	87.897
95% UNC. :	0.420	0.420	7.808	1.246	0.030	10.919

IMPROVED STATISTICS: ELIMINATION DATA FOR CHIP # 3

	NC	NC-ITNC	IF	INC.F/IF	IF/DAY	IF/YF
IFAT	5.801	5.777	63.570	10.144	0.247	88.868
95% UNC. :	0.274	0.275	7.035	1.123	0.027	9.839

IFAT STATISTICS...CHECK DATA

III 6 IAV

CHIP #	1	2	3	4	5	6
1ST FEAT	0.016	5.468	5.960	5.675	0.016	5.468
2ND FEAT	0.030	0.041	0.038	0.044	0.030	0.041

CHIP #	1	2	3	4
1ST FEAT	0.016	5.468	5.960	5.675
2ND FEAT	0.030	0.041	0.038	0.044

	NC	NC-ITNC	IF	INC.F/IF	IF/DAY	IF/YF
IFAT	5.742	5.667	62.321	9.949	0.239	87.453
95% UNC. :	0.451	0.451	7.968	1.272	0.031	11.143

IMPROVED STATISTICS: ELIMINATION DATA FOR CHIP # 2

	NC	NC-ITNC	IF	INC.F/IF	IF/DAY	IF/YF
IFAT	5.846	5.770	63.474	10.133	0.243	88.705
95% UNC. :	0.309	0.309	7.202	1.150	0.028	10.072

IFAT STATISTICS...CHECK DATA

III 7 IAV

CHIP #	1	2	3	4
1ST FEAT	0.617	0.489	0.793	0.771
2ND FEAT	0.063	0.057	0.070	0.050

	NC	NC-ITNC	IF	INC.F/IF	IF/DAY	IF/YF
IFAT	0.253	0.157	62.844	10.815	0.211	86.111

	IC	IC-ITNC	IF	IFC.I/IF	IF/DAY	IF/YF
FEAD :	6.097	6.021	60.235	10.574	0.254	92.627
SES UIC. :	0.524	0.524	8.778	1.701	0.034	12.276

IAI STATISTICS...CHIEF DATA

---

CHIEF #	1	2	3	4
1ST FEAD	5.942	6.099	5.508	6.277
2ND FEAD	0.036	0.043	0.040	0.051

	IC	IC-ITNC	IF	IFC.F/IF	IF/DAY	IF/YF
FEAD :	5.903	5.827	64.100	10.233	0.246	89.641
SES UIC. :	0.539	0.540	8.737	1.395	0.033	12.218

INTERVIEW STATISTICS: ELIMINATION DATA FOR CHIEF # 3

	IC	IC-ITNC	IF	IFC.F/IF	IF/DAY	IF/YF
FEAD :	6.078	5.972	65.690	10.488	0.252	91.873
SES UIC. :	0.226	0.225	7.021	1.122	0.027	9.828

IAI STATISTICS...CHIEF DATA

---

CHIEF #	1	2	3	4
1ST FEAD	4.934	4.809	5.420	5.216
2ND FEAD	0.058	0.040	0.045	0.063

	IC	IC-ITNC	IF	IFC.F/IF	IF/DAY	IF/YF
FEAD :	5.045	4.965	54.662	8.720	0.209	76.442
SES UIC. :	0.480	0.481	7.604	1.214	0.029	10.637

INTERVIEW STATISTICS: ELIMINATION DATA FOR CHIEF # 3

	IC	IC-ITNC	IF	IFC.F/IF	IF/DAY	IF/YF
FEAD :	4.933	4.857	53.427	8.529	0.205	74.740
SES UIC. :	0.724	0.324	6.422	1.025	0.025	8.981

FEAD STATISTICS...CHIEF DATA



Table 19  
Exposure Rates at Nuclear Facilities  
Measured with TLD's

DALLASVILLE ICEST MANAGEMENT AREA ... 840619 - 850307 : 261 DAYS

TLD#	LF	FICRF/FP	MR/YR
4.0 (+-)	75.2 8.4	11.7 1.3	102.4 11.8
5.0 (+-)	63.5 7.0	10.1 1.1	88.9 9.8
6.0 (+-)	63.5 7.2	10.1 1.1	88.8 10.1
7.0 (+-)	66.2 8.8	10.6 1.4	92.6 12.3
8.0 (+-)	65.7 7.0	10.5 1.1	91.9 9.8
10.0 (+-)	53.4 6.4	8.5 1.0	74.7 9.0
15.0 (+-)	61.3 12.8	10.3 2.0	89.9 17.9

Table 19  
Exposure Rates at Nuclear Facilities  
Measured with TLD's

DEPARTMENT OF ENERGY, HEALTH, SAFETY AND ENVIRONMENT, 2011

TIME	IF	11011/IF	11/11
7.0 (+-)	7.2 8.7	11.1 1.7	100.4 11.8
8.0 (+-)	13.5 7.0	10.1 1.1	88.9 9.8
9.0 (+-)	13.1 7.2	10.1 1.1	88.9 10.1
10.0 (+-)	18.8 8.8	10.7 1.7	95.6 10.2
11.0 (+-)	15.7 7.0	10.9 1.1	91.1 9.8
12.0 (+-)	13.7 6.1	10.5 1.0	92.5 9.8
13.0 (+-)	16.2 13.8	10.7 1.0	95.6 11.8

STATE UNIVERSITY - FALLVILLE ... 820615 - 110701 ... 11/18

III)	II	ITCHI/IF	II/YI
4.0	49.5	7.644	67.0
(4-)	5.0	0.8	7.0

Table 19

## Exposure Rates at Nuclear Facilities

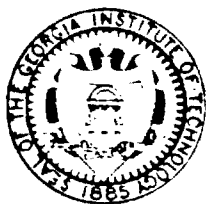
Measured with TLD's

DAWSONVILLE FOREST MANAGEMENT AREA ... 840619 - 850307 : 261 DAYS

TLD#	MR	MICRR/HR	MR/YR
4.0	73.2	11.7	102.4
(+-)	8.4	1.3	11.8
5.0	63.5	10.1	88.9
(+-)	7.0	1.1	9.8
6.0	63.5	10.1	88.8
(+-)	7.2	1.1	10.1
7.0	66.2	10.6	92.6
(+-)	8.8	1.4	12.3
9.0	65.7	10.5	91.9
(+-)	7.0	1.1	9.8
10.0	53.4	8.5	74.7
(+-)	6.4	1.0	9.0
NET. AVG.:	64.3	10.3	89.9
(+-)	12.8	2.0	17.9

STATE BACKGROUND- DAWSONVILLE ... 840619 - 850307 : 261 DAYS

TLD#	MR	MICRR/HR	MR/YR
17.0	47.9	9.644	67.00
(+-)	5.0	0.80.0	7.0.0



B-10-639

GEORGIA INSTITUTE OF TECHNOLOGY  
OFFICE OF INTERDISCIPLINARY PROGRAMS  
205 OLD CIVIL ENGINEERING BUILDING  
ATLANTA, GEORGIA 30332

ENVIRONMENTAL RESOURCES CENTER  
(404) 894.2375

BIOENGINEERING CENTER  
(404) 894-2375

DATE: April 15, 1985

TO: James Hardeman, Program Manager  
Environmental Radiation Program  
Environmental Protection Division, DNR

FROM: Bernd Kahn, Director  
Environmental Resources Center

SUBJECT: Monthly Report of Activities for the State by the  
Environmental Radiation Laboratory, March, 1985

---

The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental radionuclide monitoring at nuclear facilities by DNR staff	Table 1-24
Other samples collected by DNR and DHR staff	Table 25-27
Monitoring by DNR staff of community water systems	Table 28
Environmental radiation monitoring at nuclear facilities by DNR staff	Table 29

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity that may be attributed to the facility:

Tables 7 and 8 — Co-60 in soil and moss and Eu-152 in soil at the Dawson Forest.

Tables 9 and 11- H-3 in fish and water at the Farley Plant.

Tables 20, 22, 23 and 24—H-3 in milk, grass, fish, rainwater, and surface water at the Savannah River Plant.

All other radionuclides in Tables 1-24 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables.

Of water samples collected at private supplies, only one near Alapaha contained elevated radium levels, and none in Lumpkin County had elevated gross alpha particle activity (Tables 25-26). Some solid samples collected at a site where Ra-226 had been used showed elevated Ra-226 levels (see Table 27).

Radioactivity results for community water supplies, compiled in Table 28, include partial data for samples WS4455-4689.

Elevated radium levels ( $> 5$  pCi/l) were found in the following:

WS4508	Hazlehurst
WS4522	Attapulcus
WS4531	
WS4527	M & T Water Works
WS4561	Alapaha
WS4572	White Water Creek
WS4578	Tifton Ind. Park
WS4588	Spring Valley SD

High uranium concentration ( $>15$  pCi/l) were found in the following:

WS4479	Seminole MHP
WS4513	Gray
WS4588	Spring Valley SD

Results for community water supplies continue to be reported in a different form this month due to computer difficulties.

TLD measurements obtained in the vicinity of the Farley and Oconee Plants and at background locations are reported in Table 29. Ranges of exposure, in mR/yr, were:

<u>Location</u>	<u>Near Plant</u>	<u>Background</u>
Farley	43 - 74	46 - 83
Oconee	50 - 123	62 - 100

All of the exposure rates are attributable to the natural radiation background, but the background stations are not sufficiently matched to confirm this.

The types of samples and number of each that were analyzed are summarized in the following two tables.

The following values in previous monthly reports were in error and should be corrected:

<u>Report month</u>	<u>Table</u>	<u>Sample No.</u>	<u>Radionuclide</u>	<u>Correct value</u>
Feb., 1985	3	B 1208	I - 131	2+1, not 8 pCi/l
Jan., 1985	14	SR 1829	H - 3	800, not 8,200 pCi/kg
Jan., 1985	10	F 856	gross beta	0.013 not 0.001 pCi/m <sup>3</sup>
July, 1984	15	SR 1571	Cs - 137	1,500, not 150 pCi/l
June, 1984	3	B 1081	Cs - 134	160, not ND pCi/kg
June, 1984	5	B 1086	Cs - 137	77, not 770 pCi/kg
June, 1984	10	SR 1541	Cs - 137	260, not 2,600 pCi/kg
June, 1984	10	SR 1542	Cs - 137	330, not 3,300 pCi/kg

Also note that (1) Cs-134 was not detected in sample B 1080 (>50 pCi/kg) and that Zn-65 was not detected in samples B 1080 (>160 pCi/kg) and B 1081 (>80 pCi/kg) in Table 3 of the June, 1984 report); and (2) sample SR 1869 is Waynesboro, not Simulator (February 85 report, Table 16)



Sample Types Analyzed in Month

<u>Sample Types</u>	<u>Analyzed in Month</u>
Community water supplies	105
Nuclear facilities	287
Quality control - EPA	6
Total	<u>398</u>

Number of Samples Analyzed in Month

	water	air filter	air cartridge	milk	grass, veg.	soil, sediment	animals	smears	TLD	TOTAL MARCH 1985
gross alpha	118	5								123
gross beta	36	8								44
gamma spectra	28		8	4	11	31	13			95
H-3	30			6	3		6			45
Sr-89/90										-
I-131	7			12						19
Ra-226	17									17
U	6									6
Pu										-
dose									49	49
other										-
Total	242	13	8	22	14	31	19	-	49	398

Table 1

Radioactivity Levels in Milk Samples from  
the Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
* B1219	GSP	<10	1.9	<300	<4
* B1220	Johnson Bros.	8	1.8	<300	<5
* B1221	Williamson	< 6	2.0	<300	<3

- 
- Notes: 1. Samples were collected on March 25, 1985, by Georgia Power Company staff.
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 2

Radioactivity Levels in Water Samples  
from the Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
* B 1222	Sta. 170	< 2	< 3	< 300	< 1
* B 1229	Sta. 172	< 2	< 3	< 300	<0.7

- 
- Note:
1. Samples were collected February 25-March 25, 1985, by Georgia Power Company staff.
  2. I-131 was calculated as of the final day of the collection period.
  3. No man-made photon-emitting radionuclides were detected in these samples (Cs-137 <20 pCi/l).

Table 3

Radioactivity Levels in Grass Samples from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt./ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>	
			<u>Cs-137</u>	<u>Be-7</u>
* B 1226	Sta. #5	0.14	< 100	2,600
* B 1227	Sta. #21	0.16	< 100	2,900

- 
- Notes: 1. Samples were collected on March 18, 1985, by Georgia Power Company staff.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 4

Radioactivity Levels in Fish from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Type</u>	<u>Location</u>	<u>Dry wt./ Wet wt.</u>	<u>Cs-137, pCi/kg</u>	<u>H-3, pCi/l</u>
* B 1228	American shad	Altamaha River	0.35	< 50	< 300

- 
- Notes: 1. Sample was collected on March 5, 1985, by Georgia Power Co. staff.  
2. No other man-made photon-emitting radionuclides were detected.

Table 5

Radioactivity Levels in Air Samples from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m3</u>	<u>Radionuclide concen- tration, pCi/m<sup>3</sup></u>	
				<u>I-131</u>	<u>Gross beta</u>
*B 1230	Cartridge Paper filter	Dead River Rd.	839	<0.006 -----	----- 0.033
*B 1231	Cartridge Paper filter	Plant Hatch	699	<0.006 -----	----- 0.030
*B 1232	Cartridge Paper filter	Substation	2,828	<0.002 -----	----- 0.010

- 
- Notes: 1. Samples were collected on March 26, 1985, after 28-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 6

Radioactivity Levels in Water Samples from  
the Environment of the Dawson Forest

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>
D 261	Etowah R., background	< 2	2 $\pm$ 2	< 200
D 262	Etowah R., indicator	< 1	< 2	< 200

- 
1. Samples were collected on March 7, 1985.
  2. No man-made photon-emitting radionuclides were detected in these samples (Cs-137 <20 pCi/l).



Table 7

Radioactivity Levels in Sediment Samples from the  
Environment of the Dawson Forest

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>				
			<u>Co-60</u>	<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
D 263	COA #8	0.90	310	50	8,800	700	800
D 264	R - 3	0.90	500	53	10,200	900	1,000
D 265	COA #10	0.92	<40	85	9,000	800	1,200
D 266	R - 2	0.86	1,200	<40	6,700	500	600
D 267	COA #9	0.91	<40	<40	12,000	1,000	1,500
D 268	HC # 4	0.84	<40	91	13,000	1,400	1,400
D 269	R - 1	0.83	320	89	13,000	800	1,000
D 270	COA #3	0.68	<40	110	7,600	600	700
D 271	COA #1	0.79	630	240	12,000	600	1,000
D 272	HC #1	0.83	<40	380	18,000	1,500	1,900
D 273	COA #7	0.91	<40	230	12,000	700	1,000
D 274	COA #5	0.69	<40	<40	8,600	700	600
D 275	HC #2	0.85	91	130	15,000	1,200	1,300
D 276	HC #3	0.76	360	79	15,000	1,300	1,400
D 277	COA #11	0.85	230	67	7,600	1,100	1,100
D 278	COA #4	0.74	<40	71	6,500	700	700
D 279	COA #6	0.55	<60	69	9,300	800	1,200

- 
- Notes: 1. Samples were collected on March 7, 1985.  
 2. No other man-made photon-emitting radionuclides were detected except Eu-152 in samples D264 (1,100 pCi/kg), 266 (1,900 pCi/kg) and 269 (660 pCi/kg)

Table 8

Radioactivity Levels in Moss Sample from the  
Environment of the Dawson Forest

<u>Sample no.</u>	<u>Location</u>	<u>Dry wt./ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>		
			<u>Co-60</u>	<u>Cs-137</u>	<u>Be-7</u>
D 280	Etowah R., COA # 2	0.54	3,800	420	1,100

- 
- Notes: 1. Sample was collected on March 7, 1985.
2. No other man-made photon-emitting radionuclids were detected.  
Be-7 is formed in nature.

Table 9

Radioactivity Levels in Fish from the  
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Type</u>	<u>Location</u>	<u>Dry wt./ Wet wt.</u>	<u>Cs-137, pCi/kg</u>	<u>H-3, pCi/l</u>
F 860	Largemouth bass	Sta. 3	0.33	120	< 300
F 861	Channel catfish	Sta. 3	0.38	<60	< 300
F 863	Largemouth bass	Sta. 2	0.30	83	600 $\pm$ 200
F 864	Greyfin redhorse	Sta. 2	0.33	<60	500 $\pm$ 200
F 865	Largemouth bass	Sta. 1	0.34	<60	< 300
F 866	Greyfin redhorse	Sta. 1	0.35	<60	< 300

- 
- Notes: 1. Samples were collected on November 1, 1984.
2. No other man-made photon-emitting radionuclides were detected.

Table 10

Radioactivity Levels in Air Samples from the  
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m<sup>3</sup></u>	<u>Radionuclide concen- tration, pCi/m<sup>3</sup></u>	
				<u>I-131</u>	<u>Gross beta</u>
F 862	Cartridge Paper filter	Great Southern Paper Co.	4990	<0.006 -----	----- 0.008

- 
- Notes: 1. Samples were collected on February 22, 1985 after 39-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridge.

Table 11

Radioactivity Levels in Water Samples from  
the Environment in Georgia of the Farley Nuclear plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F 867	Chattahoochee R., Great Southern Paper Co.	< 1	< 2	< 300	< 4
F 872	TLD # 20, ground	< 3	3 ± 2	< 200	—
F 873	TLD # 12, ground	2 ± 2	5 ± 2	< 200	—
F 874	TLD # 20, surface	< 2	2 ± 2	< 200	—
F 875	TLD # 12, surface	< 2	2 ± 2	1,300 ± 200	—
F 876	TLD # 1, ground	< 2	2 ± 2	< 200	—

- 
- Notes: 1. Sample F867 was collected December 31, 1984 - February 22, 1985; samples F872-876 were collected on March 19, 1985.
2. I-131 was calculated as of the final day of the collection period.
3. No man-made photon-emitting radionuclides were detected in samples F867, 874 and 875 (Cs-137 <20 pCi/l).

Table 12

Radioactivity Levels in Soil Samples from the  
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>			
			<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
F 868	TLD # 16	0.98	< 40	200	200	200
F 869	TLD # 1	0.95	< 40	1,100	900	1,700
F 870	TLD # 12	0.95	67	1,200	600	800
F 871	TLD # 20	0.97	91	7,300	900	1,400

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Notes: 1. Samples were collected on March 19, 1985.  
2. No other man-made photon-emitting radionuclides were detected.

Table 13

Radioactivity Levels in Grass Samples from the  
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt./ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>	
			<u>Cs-137</u>	<u>Be-7</u>
F 877	TLD # 1	0.18	< 100	910
F 878	TLD # 20	0.24	< 100	6,500
F 879	TLD # 12	0.47	100	8,600
F 880	TLD # 16	0.31	< 100	5,500

- 
- Notes: 1. Samples were collected on March 19, 1985.  
2. No other man-made photon-emitting radionuclides were detected.  
Be-7 is formed in nature.

Table 14

Radioactivity Levels in Grass Samples from the  
Environment of the Georgia Tech Research Reactor

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt./ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>	
			<u>Cs-137</u>	<u>Be-7</u>
GT 168	TLD # 11	0.085	< 200	< 2,000
GT 169	TLD # 5	0.16	< 100	2,800
GT 190	TLD # 2	0.17	< 100	6,100
GT 171	TLD # 8	0.22	< 100	1,100

- 
- Notes: 1. Samples were collected on March 18, 1985.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.



Table 15

Radioactivity Levels in Soil Samples from the  
Environment of the Georgia Tech Research Reactor

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>			
			<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
GT 172	TLD # 11	0.97	180	12,000	600	800
GT 173	TLD # 2	0.94	380	14,000	1,000	1,300
GT 174	TLD # 5	0.91	<40	17,000	1,000	1,400
GT 175	TLD # 8	0.80	1,500	15,000	800	1,400

- 
- Notes: 1. Samples were collected on March 18, 1985.  
2. No other man-made photon-emitting radionuclides were detected.

Table 16

Radioactivity Levels in Water Sample from  
the Georgia Tech Research Reactor

<u>Sample No.</u>	<u>Location</u>	Gross alpha, <u>pCi/l</u>	Gross beta, <u>pCi/l</u>	Cs-137, <u>pCi/l</u>	H-3, <u>pCi/l</u>
GT 176	Suspect waste	< 2	34 $\pm$ 3	16	57,000 $\pm$ 400

- 
- Notes: 1. Sample was collected on March 18, 1985.
2. No other man-made photon-emitting radionuclides were detected in the sample (Co-60 <10 pCi/l).

Table 17

Radioactivity Levels in Grass Samples from the  
Environment in Georgia of the Oconee Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt./ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>	
			<u>Cs-137</u>	<u>Be-7</u>
LH 196	TLD # 6	0.26	< 100	13,000
LH 197	TLD # 9	0.20	< 100	11,000
LH 198	TLD # 1	0.17	< 100	11,000
LH 199	TLD # 3	0.25	< 100	13,000

- 
- Notes: 1. Samples were collected on March 2, 1985.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 18

Radioactivity Levels in Sediment Samples from the  
Environment in Georgia of the Oconee Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/Kg</u>			
			<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
LH 200	TLD # 1	0.83	960	7,000	2,100	2,900
LH 201	TLD # 3	0.70	110	6,600	1,100	600
LH 202	TLD # 6	0.80	<40	10,600	1,600	1,800
LH 203	TLD # 9	0.80	<40	18,000	1,500	1,100

- 
- Notes: 1. Samples were collected on March 22, 1985.  
2. No other man-made photon-emitting radionuclides were detected.

Table 19

Radioactivity Levels in Water Samples from  
the Environment in Georgia of the Oconee Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	Gross alpha, <u>pCi/l</u>	Gross beta, <u>pCi/l</u>	H-3, <u>pCi/l</u>
LH 204	TLD #1, surface	< 2	< 2	< 300
LH 205	TLD # 1, ground	2 $\pm$ 2	4 $\pm$ 2	< 300
LH 206	TLD # 3, ground	19 $\pm$ 4	7 $\pm$ 2	< 300
LH 207	TLD # 6, surface	< 2	< 2	< 300
LH 208	TLD # 6, ground	< 2	< 3	< 300
LH 209	TLD # 9, ground	< 2	< 2	< 300
LH 210	TLD # 9, surface	< 2	< 2	< 300

- 
- Notes: 1. Samples were collected on March 22, 1985.  
2. No man-made photon-emitting radionuclides were detected in samples LH 204, 207 and 210 (Cs-137 <20 pCi/l).

Table 20

Radioactivity Levels in Water Samples from  
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Inches Rainfall</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR1913	Savannah R., Hwy 301	—	< 1	< 2	<200	< 1
SR1914	Waynesboro rain	3.3	< 1	< 2	<200	< 1
SR1915	Girard, rain	no data	< 1	2+2	1,300+300	—
SR1916	GPC simulator rain	4.0	< 2	< 2	4,600+300	—
SR1917	Augusta, rain	3.6	< 2	< 3	700+300	—
SR1918	Hargrove Rd., rain	3.6	< 1	< 3	6,800+300	—
SR1919	Ga. Welcome Sta. rain	3.3	3+2	2+2	3,500+300	—
SR1924	I & D Water Supply, Port Wentworth	—	< 2	2+2	3,500+300	< 3
SR1925	N. Augusta, raw composite	—	2+1	3+2	300+200	—
SR1926	Port Wentworth, raw composite	—	< 1	2+1	2,900+200	—
SR1927	RM 150.4	—	8+2	10+2	500+200	—
SR1928	RM 146.7	—	2+1	4+2	1,400+200	—

Table 20 (cont.)

<u>Sample No.</u>	<u>Location</u>	<u>Inches Rainfall</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR1929	RM 151.2	—	2 <sub>±1</sub>	3 <sub>±2</sub>	700 <sub>±200</sub>	—
SR1934	Savannah R., R-2	—	< 2	3 <sub>±2</sub>	<200	< 1
SR1935	Savannah R., R-10	—	< 2	2 <sub>±2</sub>	4,100 <sub>±300</sub>	< 2

- 
- Notes: 1. Samples SR1913-1919 were collected January 24-February 27, 1985; sample SR1924 was collected March 6-12, 1985; samples SR1925-1929 were collected on March 19, 1985, by Georgia Power Co. staff; samples SR1934-1935 were collected on March 19, 1985, by Savannah River Plant staff.
2. I-131 was calculated as of the final day of the collection period.
3. No man-made photon-emitting radionuclides were detected in samples SR 1913, 1924-1929 and 1934-1935.

Table 21

Radioactivity Levels in Air Samples from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m<sup>3</sup></u>	<u>Radionuclide concen- tration, pCi/m<sup>3</sup></u>		
				<u>I-131</u>	<u>Gross alpha</u>	<u>beta</u>
SR 1920	Cartridge Paper filter	Welcome Ctr.	872	<0.02 -----	----- 0.002	----- 0.008
SR 1921	Cartridge Paper filter	Waynesboro	574	<0.02 -----	----- 0.002	----- 0.006
SR 1922	Cartridge Paper filter	Girard	1858	<0.01 -----	----- <0.001	----- 0.004
SR 1923	Cartridge Paper filter	Augusta	2023	<0.005 -----	----- 0.001	----- 0.002

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Notes: 1. Samples were collected on February 27, 1985 after 34-day sampling.  
2. No other man-made photon-emitting radionuclides were detected in the cartridges.



Table 22

Radioactivity Levels in Grass Samples from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt./ Wet wt.</u>	<u>H-3, pCi/l</u>	<u>Radionuclide concentration, pCi/kg</u>	
				<u>Cs-137</u>	<u>Be-7</u>
SR 1930	Simulator	0.24	11,700 $\pm$ 300	< 100	<1,000
SR 1931	Waynesboro	0.22	3,800 $\pm$ 200	< 100	1,500
SR 1932	Hancock Landing	0.33	17,500 $\pm$ 300	< 100	4,500

- 
- Notes: 1. Samples were collected on March 19, 1985, by Georgia Power Co. staff.  
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 23

Radioactivity Levels in Fish from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Type</u>	<u>Location</u>	<u>Dry wt./ Wet wt.</u>	<u>Cs-137, pCi/kg</u>	<u>H-3, pCi/l</u>
SR 1933	Redear sunfish	RM 153.4	0.21	140	500+200

- 
- Notes: 1. Sample was collected on March 1, 1985, by Georgia Power co. staff.  
2. No other man-made photon-emitting radionuclides were detected (Co-60 <10 pCi/kg)

Table 24

Radioactivity Levels in Milk Samples from  
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 1936	Girard	< 10	2.1	2,100±400	< 0.6
SR 1937	Gracewood	6	1.6	800±300	< 0.7
SR 1938	Waynesboro	< 6	1.7	<300	< 0.7

- 
- Notes: 1. Samples were collected on March 21, 1985, by Savannah River Plant staff.
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 25  
Radioactivity Levels in Water near Alapaha

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Ra-226, pCi/l</u>	<u>Ra-228 pCi/l</u>
WX 574	Gaskin Estates	2 $\pm$ 1	0.6	< 1
WX 575	Tim Moore	2 $\pm$ 1	2.0	< 1
WX 576	Dixon Estates	6 $\pm$ 2	1.7	< 1
WX 577	Experiment Sta. U. GA.	7 $\pm$ 2	2.1	< 1
WX 578	Alapaha	38 $\pm$ 4	7.3	< 1
WX 579	Otha Lee	< 2	<0.1	1.4

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Note: Samples were collected on February 27, 1985.

Table 26

## Radioactivity Levels in Ground Water from Lumpkin County

<u>Sample No.</u>	<u>Gross alpha, Location</u>	<u>Gross alpha, pCi/l</u>
WX 580	Barton King, Welch Dr.	< 3
WX 581	Brown	2 $\pm$ 2
WX 582	Russ Transue, Cavider Creek Road	< 4
WX 583	Ed Anderson, Porter Springs Rd. house	< 3
WX 584	Ed Anderson, Porter Springs Rd. house	< 4
WX 585	Lumpkin Co. Health Dept.	< 4

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Note: Samples were submitted by office of Epidemiology, DHR,  
on March 28, 1985.

Table 27

Radioactivity Levels in Smears, Scrapings and Swabs from Ra-226 User Site

<u>Sample No.</u>	<u>Sample Type</u>	<u>Ra-226, pCi</u>
S 2447-2460 except 2451 and 2453	Combined	1,500 (per 12 samples)
S 2451	Smear	<100
S 2453	Scrapings	13,000
S 2461	Scrapings	8,900
S 2462	Q tips	<100

- 
- Notes: 1. Samples were collected in Atlanta on March 20, 1985, by DHR staff.  
 2. Samples were analyzed by gamma-ray spectrometer, using the 186-keV gamma ray of Ra-226.

Table 28

## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8411 ... INCOMPLETE

#	SAMPLE	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA	RA- 226	RA- 228	URANIUM
WS #							PCI/L	PCI/L	PCI/L	PCI/L
215012	4455	SADDLE BAGS MHP	LOWNDES	10-25-84	8411	1.000	2 + 1			
215137	4456	WRIGHTS TP	LOWNDES	10-18-84	8411	1.000	2 + 1			
313378	4457	GLENWOOD, CITY OF	WHEELER	10-30-84	8411	1.000	3 + 1			
222692	4458	NORWOOD, CITY OF	WARREN	10-30-84	8411	1.000	2 + 1			
208848	4459	GA CHRISTIAN SCHOOL	LOWNDES	10-29-84	8411	1.000	2 + 1			
704278	4460	ALBANY	DOUGHERTY	10-31-84	8411	1.000	< 1			
312198	4461	VIDALIA, CITY OF	TOOMES	10-25-84	8411	1.000	3 + 1			
227450	4462	ANGLER'S COVE ASSN	LIBERTY	10 0-84	8411	4.001	< 1			
115120	4463	AVONDALE MHP	ETEB	10-25-84	8411	1.000	3 + 1			
3005785	4464	CARNESVILLE, CITY OF	FRANKLIN	10-31-84	8411	4.004	3 + 1			
208811	4465	LAKE PARK, CITY OF	LOWNDES	10-25-84	8411	1.000	< 1			
520799	4466	CIRCLE	THOMAS	10-29-84	8411	4.003	3 + 1			
517011	4467	RUNAWAY POINT S/D	CHATHAM	10-16-84	8411	1.000	< 2			
403335	4468	DOUGLASS, CITY OF	COFFEE	10-25-84	8411	1.000	4 + 1	2.7		
522556	4469	WHITE MARSH ISLAND	CHATHAM	10-16-84	8411	1.000	< 1			
313369	4470	ALAMO, CITY OF	WHEELER	10-30-84	8411	1.000	82 + 3	17.6	1.6	< 2
502211	4471	HARBOR CREEK S/D	CHATHAM	10-26-84	8411	1.000	< 1			
114824	4472	MOUNTVILLE, CITY OF	TROUP	10 -5-84	8411	6.001	2 + 1			
308564	4473	GREENVIEW MHP	LEE	11 -2-84	8411	1.000	< 1			
305584	4474	SANDS MHP	COLQUITT	11 -5-84	8411	1.000	4 + 1	2.0		
114665	4475	WOODLAND LAKE S/D	LIBERTY	10-17-84	8411	1.000	< 1			
114533	4476	CANAL RD. MHP	GLYNN	10-23-84	8411	1.000	< 1			
308528	4477	LAKEVIEW MHP	LEE	11 -2-84	8411	1.000	< 1			
27876	4478	KEYRIDGE MHP	LEE	11 -2-84	8411	1.000	< 1			
15846	4479	SEMINOLE MHP	CLARKE	11 -6-84	8411	3.000	26 + 2	7.9	1.5	30 + 2
11906	4480	COOLIDGE, CITY OF	THOMAS	11 -1-84	8411	1.000	4 + 2	1.3		
01801	4481	FORT MCINTOSH WIR S	BRANTLEY	10-25-84	8411	1.000	2 + 1			
08701	4482	LAKE GEORGE S/D	LIBERTY	10-17-84	8411	1.000	< 1			
18388	4483	RIVER BEND S/D	CHATHAM	10-16-84	8411	1.000	< 2			
02431	4484	THE BLUFF S/D	CHATHAM	10-23-84	8411	1.000	< 2			
02248	4485	THE LANDINGS S/D	CHATHAM	10-26-84	8411	1.000	< 2			
14824	4486	MOUNTVILLE, CITY OF	TROUP	11 -5-84	8411	6.000	4 + 1	0.3		
14824	4487	MOUNTVILLE, CITY OF	TROUP	11 -5-84	8411	4.003	14 + 2	2.3	4.0	10 + 1
07909	4488	TURTLE COVE	JASPER	11 -1-84	8411	4.009	< 2			
8125	4489	BUTCH'S TP	PEACH	11 -8-84	8411	1.000	2 + 2			
7241	4490	ROSE CITY MHP	THOMAS	11 -9-84	8411	3.000	3 + 2	0.9		
1577	4491	WHISPERING PINE EST	TIFT	11 -9-84	8411	6.000	19 + 3	9.0	< 1.0	< 2
5557	4492	PINEY GROVE S/D	COLQUITT	11 -6-84	8411	1.000	< 2			
8936	4493	DAYLEY'S MHP	LOWNDES	11 -6-84	8411	1.000	< 2			
4985	4494	REGISTER MHP	LOWNDES	11 -6-84	8411	1.000	< 2			
3216	4495	SANDERSVILLE, CITY OF	WASHINGTON	11-13-84	8411	4.004	2 + 2			
7717	4496	FAWN HEIGHTS S/D	BROOKS	11 -8-84	8411	4.001	< 2			
6708	4497	BARBERRY HILLS S/D	FORSYTH	10-31-84	8411	4.003	9 + 2	0.6		
5543	4498	EULONIA W.S.	MCINTOSH	10-13-84	8411	4.000	< 2			
6130	4499	ROYAL COURT MHP	CLAYTON	11-16-84	8411	6.000	34 + 3	9.5		
3519	4500	KINCHAFONNEE MHP	LEE	11 -5-84	8411	1.000	< 1			
936	4501	OAK RIDGE TP	TIFT	11 -9-84	8411	6.000	570 + 7	113		
8723	4502	JONES MHP	GWINNETT	11-19-84	8411	4.002	2 + 2			
427	4503	ASHBURN, CITY OF	TURNER	11-15-84	8411	4.005	< 1			
####	4504	WINDY CREEK S/D		11-24-84	8411	4.002	3 + 1			

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8411 ... INCOMPLETE

SAMPLE	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA	RA- 226	RA- 228	URANIUM
WS #						PCI/L	PCI/L	PCI/L	PCI/L
#####	4505 FAMILY LIFE ENR CENT		11-24-84	8411	4.002	< 1			
#####	4506 WINDY CREEK S/D		11-24-84	8411	4.001	1 + 1			
22718	4507 FAMILY LIFE ENR CENT	COONEE	11-24-84	8411	4.001	3 + 1			

S: TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE



## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8412 ... INCOMPLETE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAP DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
07927	4508 HAZLEHURST, CITY OF	JEFF DAVIS	11-26-84	8412	4.001	9 + 2	3.8	5.9	
27762	4509 PLANTATION ACRES MHP	MCDUFFIE	11-16-84	8412	4.000	< 1			
33744	4510 ELDER HEIGHTS	COONEE	11-27-84	8412	4.002	< 1			
18852	4511 WALTHOURVILLE, CITY	LIBERTY	11-27-84	8412	4.002	< 1			
08104	4512 GRAY, CITY OF	JONES	11-26-84	8412	4.008	16 + 2	1.5	1.4	15 + 1
08104	4513 GRAY, CITY OF	JONES	11-16-84	8412	4.009	36 + 3	0.8	< 1.0	44 + 4
08616	4514 LEE CO. CORR. INST.	LEE	11-14-84	8412	1.000	< 1			
27382	4515 MOBILE MANOR ESTATE	PEACH	11-16-84	8412	1.000	< 2			
03649	4516 GROVETOWN, CITY OF	COLUMBIA	11-19-84	8412	1.000	2 + 1			
21980	4517 SANDY PINES MHP	LAURENS	11-20-84	8412	1.000	< 1			
08467	4518 LEEBURG, CITY OF	LEE	11-27-84	8412	1.000	< 1			
20510	4519 TIFT AREA MHP	TIFT	11-14-84	8412	1.000	2 + 2			
08591	4520 LEE HIGH ACRES S/D	LEE	11-27-84	8412	1.000	< 1			
35354	4521 SPRING VALLEY S/D	NEWTON	8-14-84	8412	1.000	210 + 6	17.5		
04158	4522 ATTAPULGUS, CITY OF	DECATUR	11-20-84	8412	3.001	13 + 2			
12137	4523 WILSON'S MHP	TIFT	11-14-84	8412	1.000	< 1			
21845	4524 BARRETS MHP	LOWNDES	11-13-84	8412	1.000	< 1			
21056	4525 ROLLING HILLS MHP	PEACH	11-19-84	8412	1.000	< 1			
09072	4526 RIVER PARK	LOWNDES	10-16-84	8412	1.000	4 + 1			
22510	4527 M & T WATER WORKS	TOOMBS	11-27-84	8412	6.000	12 + 2	5.7		
21683	4528 PEELE HILL PLANT.	THOMAS	11-27-84	8412	1.000	4 + 2			
14643	4529 ROUNTREE'S MHP	LAURENS	11-20-84	8412	1.000	< 1			
08537	4530 LEE ESTATES	LEE	11-28-84	8412	1.000	< 1			
04158	4531 ATTAPULGUS, CITY OF	DECATUR	11-20-84	8412	3.000	27 + 3			
19833	4532 MEADOW HAVEN MHP	HOUSTON	11-27-84	8412	6.000	44 + 2	12.5		
12771	4533 LAFAYETTE, CITY OF	WALKER	12 -4-84	8412	0.000	< 1			
23675	4534 DE LAIGLE MHP	BURKE	12 -3-84	8412	4.003	< 1			
16694	4535 BOWEN MHP	MITCHELL	11-29-84	8412	1.000	2 + 2			
38435	4536 WHITMER MHP	LOWNDES	11-29-84	8412	1.000	< 1			
#####	4537 ANGLO-AMER. CLAY CO.		11-29-84	8412	4.000	2 + 1			
27545	4538 KINGSWOOD S/D	JACKSON	11-26-84	8412	1.000	< 1			
08963	4539 FOXBOROUGH S/D	LOWNDES	11-27-84	8412	1.000	< 2			
0698	4540 CUTHBERT, CITY OF	RANDOLPH	12 -6-84	8412	4.000	< 1			
5070	4541 STEWART'S MHP	JACKSON	12 -6-84	8412	1.000	< 1			
7597	4542 CRABAPPLE HILL S/D	THOMAS	12 -4-84	8412	1.000	< 1			
9684	4543 INDIGO MOBILE ESTATE	SCREVEN	12 -4-84	8412	1.000	< 1			
6381	4544 CINDY DRIVE S/D	THOMAS	12 -4-84	8412	1.000	3 + 1			
5609	4545 YANCEY TRAILER RENT.	COLQUITT	12 -5-84	8412	1.000	< 1			
3979	4546 SHERWOOD FOREST MHP	PEACH	12 -6-84	8412	1.000	< 1			
1103	4547 SYLVANIA, CITY OF	SCREVEN	12 -5-84	8412	1.000	< 1			
5815	4548 CANE CREEK TP	LUMKIN	11-27-84	8412	3.000	< 1			
3216	4549 MAYSVILLE, CITY OF	BANKS	12-12-84	8412	1.000	< 1			
610	4550 INDIAN BRANCH MHP	SCREVEN	10-24-84	8412	1.000	6 + 2			
2017	4551 BAXLEY, CITY OF	APPLING	12 -6-84	8412	4.004	9 + 2	2.0		
207	4552 HOMER, CITY OF	BANKS	12-12-84	8412	1.000	8 + 2			

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COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8501 ... INCOMPLETE

SAMPLE VS #	LOCATION	COUNTY	COLLECT DATE	LAI DATE	TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
27862	4553 ANNEELAKEE N.SYST. 2	POLK	1 -3-85	8501	4.002	7 + 2	0.9	2.5	
11524	4554 PLAINS, CITY OF	SUMTER	1 -4-84	8501	4.006	8 + 2	2.5	1.7	
27871	4555 ANNEELAKEE N.SYST. 2	POLK	1 -3-85	8501	4.001	< 1			
11524	4556 PLAINS, CITY OF	SUMTER	1 -4-85	8501	4.005	3 + 1			
26236	4557 HIDDEN ACRES S/D	THOMAS	1 -8-85	8501	4.000	< 1			
43325	4558 ROEING AFE	HOUSTON	12-14-84	8501	1.000	3 + 1			
17241	4559 ROSE CITY MHP	THOMAS	12-12-84	8501	3.000	3 + 1			
14616	4560 WOODLAND TRAILS MHP	LAURENS	1 -3-85	8501	1.000	2 + 2			
00466	4561 ALAPANA, CITY OF	EFFRIEN	12-19-84	8501	3.000	25 + 3			
13887	4562 THUNDERING SPRING INC	LAURENS	12-18-84	8501	1.000	< 2			
08223	4563 LAKELAND, CITY OF	LANIER	12-19-84	8501	1.000	4 + 1			
08433	4564 TAPPLEY'S MHP	LAURENS	12-18-84	8501	1.000	< 1			
09721	4565 PELHAM, CITY OF	MICHELL	12-19-84	8501	1.000	2 + 1			
25105	4566 CONGER MHP	WORTH	12-11-84	8501	1.000	2 + 1			
07341	4567 TUCALOC EAY	HART	12-21-84	8501	3.000	18 + 3			
26132	4568 DAIRY TRACT	JEFFERSON	12-20-84	8501	1.000	< 2			
17275	4569 SCHROEF ESTATES	LOWNDES	12-17-84	8501	1.000	< 2			
16495	4570 BRITLANY HARECR SOU.	FRANKLIN	12-21-84	8501	3.000	61 + 7			
00475	4571 ENIGMA, CITY OF	EFFRIEN	12-19-84	8501	3.000	7 + 1			
####	4572 WHITE WATER CREEK		1-17-85	8501	4.001	43 + 4	5.5		
14967	4573 PINE CIRCLE T/P	LOWNDES	1-15-85	8501	4.002	< 2			
39812	4574 KINGS GAF UTILITYS	HARRIS	1-14-85	8501	4.000	< 1			
####	4575 QUEENSLAND COM		1-15-85	8501	4.001	3 + 1			
24877	4576 EL DORADO WATER SUPP	TIFT	1-16-85	8501	4.000	2 + 1			
12155	4577 TIFTON INL. PARK	TIFT	1-16-85	8501	4.004	20 + 3	4.0	< 4.0	
12155	4578 TIFTON INL. PARK	TIFT	1-16-85	8501	4.005	79 + 5	11.6		
08476	4579 SMITHVILLE, CITY OF	LEE	1-17-85	8501	1.000	< 1			
25783	4580 WINDING WAY EST.	QUITMAN	1-22-85	8501	1.000	< 1			
12605	4581 SIZLAN T/P	IRWIN	1-16-85	8501	1.000	< 1			
24251	4582 CAMPELL WATER SYST	DOUGHERTY	1 -7-85	8501	1.000	< 1			
5004	4583 FOXCROFT S/D	THOMAS	1 -4-85	8501	1.001	2 + 2			
6224	4584 LEE VILLA S/D	LEE	1-22-85	8501	1.000	< 1			
7065	4585 FOREST ESTATES S/D	IRWIN	1-16-85	8501	1.000	< 2			

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: COLLECT DATE TYPE 0,2,5 = COMPOSITE DATE

## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8502 ... INCOMPLETE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
00800	4586 ALLATOONA MHF	EARTON	1-29-85	8502	4.004	3 + 1			
07607	4587 TROUF CREEK MARINA	CLYNN	1-23-85	8502	4.000	2 + 1			
04953	4588 SPRING VALLEY S/D	NEWTON	1-25-85	8502	4.000	216 + 8	16.7	< 1	174 ± 14
00800	4589 ALLATOONA MHF	EARTON	1-29-85	8502	4.003				
1063	4590 ELLAVILLE, CITY OF	SCHLEY	1-24-85	8502	4.005	2 + 1			
07653	4591 WILDWOOD ESTATES	WALTON	1-25-85	8502	4.000	4 + 1	0.8		
06869	4592 RED EARM MHF	DECATUR	1-28-85	8502	1.000	3 + 1			
08555	4593 PLANTATION MHF	LEE	1-23-85	8502	1.000	< 1			
08909	4594 BAILEY'S MHF	LOWNDES	1-24-85	8502	1.000	2 + 1			
11801	4595 FLINTWOOD S/D	DECATUR	1-28-85	8502	1.000	< 1			
02428	4596 QUAIL RIDGE MH. S/D	FOREST	1-21-85	8502	1.000	< 1			
07058	4597 SHADY GROVE TP	HALL	1-30-85	8502	1.000	2 + 1			
02955	4598 WATSON TP	TURNER	1-23-85	8502	1.000	1 + 1			
12454	4599 BROWN'S I.S.	TURNER	1-23-85	8502	1.000	2 + 1			
03236	4600 DIXIE MHF	HALL	1-30-85	8502	1.000	3 + 1			
07935	4601 PARADISE MHF	LOWNDES	2 -1-85	8502	4.001	4 + 2			
07899	4602 THE ELUFF-BELLE ISLE	FRYAN	1 -7-85	8502	4.001	< 2			
06664	4603 DERRICK S/D	CHATHAM	1-29-85	8502	4.000	< 2			
03757	4604 COOK'S MHF	CARROLL	1 -5-85	8502	4.002	< 2			
02736	4605 FARDUE'S MHF	JACKSON	1-30-85	8502	4.003	6 + 2			
02736	4606 FARDUE'S MHF	JACKSON	2 -1-85	8502	4.004	6 + 2			
07094	4607 MILLIKEN AND CO.	HALL	1-31-85	8502	1.000	< 2			
07685	4608 MILLIKEN AND CO.	HALL	1-31-85	8502	1.000	< 2			
07849	4609 HALL CO. CORRECTIONS	HALL	1-31-85	8502	1.000	2 + 1			
08454	4610 BIG CAY S/D	LEE	2 -4-85	8502	1.000	< 2			
5148	4611 PALMYRA MHF	LEE	2 -4-85	8502	1.000	< 1			
9444	4612 BROWN EPCS. FARM S/D	MADISON	2 -6-85	8502	4.006	3 + 1			
6000	4613 THE OAKS NURSE HOME	MACON	2 -5-85	8502	4.002	3 + 1			
4297	4614 MOBILE OIL-Forest	ETHEL	2 -7-85	8502	4.007	< 2			
4488	4615 ARCADE MHF	JACKSON	2 -7-85	8502	1.000	< 2			
3030	4616 JACKSON CO. CORR. INS	JACKSON	0 0-85	8502	1.000	3 + 1			
4586	4617 CROCKET CREEK VILL.	JACKSON	0 0-85	8502	1.000	5 + 1			
4941	4618 CHAMBER'S MHF	LEE	2 -5-85	8502	1.000	< 2			
1750	4619 LAF. V. MHF	TIFT	2 -5-85	8502	1.000	< 2			
7814	4620 NICHOLSON V.A.	JACKSON	2 -7-85	8502	1.000	3 + 1			
3012	4621 THE POTTER'S HOUSE	JACKSON	2 -7-85	8502	1.000	4 + 1			
5001	4622 BRITANNY BARFORD WEST	FRANKLIN	12-21-84	8502	3.000				
7828	4623 FINE HAVEN MHF	JACKSON	2 -5-85	8502	1.000	14 + 2			
799	4624 HOSCHTON, CITY OF	JACKSON	2 -4-85	8502	1.000	< 2			
743	4625 FINE HILL MHF	COOK	2-11-85	8502	3.000				
167	4626 EATNEIDGE, CITY OF	DECATUR	2-11-85	8502	1.000	< 2			
292	4627 NEWARK W.S.	THOMAS	2 -7-85	8502	1.000	< 2			
146	4628 BOWER-A-FIGHT S/D	TIFT	2 -5-85	8502	1.000	< 2			
705	4629 SYLVESTER, CITY OF	WORTH	1-31-85	8502	1.002	< 2			
699	4630 SUMNER, CITY OF	WORTH	2 -5-85	8502	1.001	10 + 2			
439	4631 LUMPKIN, CITY OF	STEWART	1-31-85	8502	1.000	2 + 1			
484	4632 COLONY MHF	JACKSON	2 -5-85	8502	1.000	2 + 1			
009	4633 MINEOLA MHF	LOWNDES	2 -7-85	8502	1.001	< 2			
339	4634 BRONCOCK, CITY OF	TERRELL	1-31-85	8502	1.000	< 2			
742	4635 BRENTWOOD NORTH S/D	LEE	2 -4-85	8502	1.000	2 + 1			

TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NET. SCREEN ; 6=OTHER  
COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8502 ... INCOMPLETE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAL DATE	TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	UFANIUM PCI/L
08893	4636 ACADEMY ACRES S/I	LOWNDES	2-14-85	8502	1.001	3 + 1			
####	4637 WHITEWATER CREEK DEV		2 -7-85	8502	4.002	62 + 4			
06549	4638 EALL RIDGE ON LANIER	FORSYTH	2 -6-85	8502	1.000	< 1			
11457	4639 RICHLAND, CITY OF	STEPHENS	2-14-85	8502	1.000	< 1			

S: TYPE C,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEEL SCREEN ; 6=OTHER  
: COLLECT DATE TYPES C,2,5 = COMPOSITE DATE

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8503 ... INCOMPLETE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAF DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 226 PCI/L	URANIUM PCI/L
0854E	4640 PINEVIEW MHP	LEE	2-15-85	8503	1.000	< 2			
220028	4641 LOCKLIN S/D	LOWNDES	2-20-85	8503	1.001	5 + 1			
21936	4642 OAK RIDGE MHP	TIFT	2-21-85	8503	1.000	594 + 18			
26405	4643 DECATUR CC CORR INST	DECATUR	2-19-85	8503	1.001	< 1			
22049	4644 CHATTAHOOCHEE FLAM.	QUITMAN	2-21-85	8503	1.000	< 2			
009673	4645 NORTH CORR. INST.	MERIWETHER	2 -1-85	8503	1.000	5 + 1			
12119	4646 FITTS TP	TIFT	2-21-85	8503	1.000	< 2			
21570	4647 LEE'S MHP	TERRELL	2-21-85	8503	1.000	2 + 1			
05502	4648 COUNTRY CIRCLE S/D	COLQUITT	1-29-85	8503	1.000	8 + 2			
36733	4649 SHADY ACRES MHP	TOOMES	2-26-85	8503	1.000	3 + 1			
26547	4650 MILLER PINES S/D	CHATHAM	2-25-85	8503	4.000	2 + 1			
27926	4651 LAKE LILLIGUAN	THOMAS	2-27-85	8503	4.001	2 + 1			
14824	4652 MOUNTVILLE W.A.	TROUP	3 -4-85	8503	4.004	84 + 3			
15058	4653 MOODY APL	LOWNDES	2-28-85	8503	1.003	2 + 1			
11857	4654 PARROTT, CITY OF	TERRELL	2-26-85	8503	1.000	< 2			
21561	4655 LAZY PINES MHP	TERRELL	3 -4-85	8503	1.000	< 1			
11890	4656 BOSTON, CITY OF	THOMAS	2-26-85	8503	1.003	< 2			
17241	4657 ROSE CITY MHP	THOMAS	2-27-85	8503	1.001	5 + 1			
03130	4658 ROYAL OCEAN MHP	CLAYTON	2-28-85	8503	3.000	60 + 3			
07582	4659 PERRY, CITY OF	HOUSTON	2-26-85	8503	1.000	5 + 1			
00835	4660 QUITMAN, CITY OF	BROOKS	3-28-85	8503	1.002				
25919	4661 HARGETT'S TP	BEN HILL	3-26-85	8503	1.000	< 2			
27409	4662 ARGYLE VILLAGE S/D	CHATHAM	2-22-85	8503	0.001	< 1			
03439	4663 ELLENTON, TOWN OF	COLQUITT	3 -5-85	8503	1.000	7 + 2			
5783	4664 WINDING WAY EST.	QUITMAN	3 -6-85	8503	1.000	< 1			
05548	4665 RUFUS NORMAN MHP	COLQUITT	3 -5-85	8503	1.000	7 + 2			
3344	4666 PRESTON, CITY OF	WEBSTER	3 -6-85	8503	1.000	1 + 1			
7644	4667 LAUREL CROSSING	FANNIN	3 -2-85	8503	4.001	5 + 1			
4877	4668 ELDORADO	TIFT	3-22-85	8503	4.000				
2155	4669 TIFTON INN PARK	TIFT	3-22-85	8503	4.004				
4877	4670 ELDORADO	TIFT	3-22-85	8503	4.000				
2155	4671 TIFTON INN PARK	TIFT	3-22-85	8503	4.005				
2155	4672 TIFTON INN PARK	TIFT	3-22-85	8503	4.000				
8122	4673 JONES COUNTY W.S.	JONES	3-18-85	8503	4.005	< 2			
8425	4674 HARPIS MHP	OCKEIA	8-14-84	8503	1.000	< 2			
0408	4675 HORACE DOLLAR MHP	GRADY	3-19-85	8503	1.001	2 + 2			
8981	4676 KELLY PINES MHP	LOWNDES	8-21-84	8503	1.001	< 2			
2274	4677 RIDGECREST CIRCLE HO	TOWNS	3-20-85	8503	1.000	< 2			
8810	4678 EAST NEWMAN W.S.	OCKEIA	8-14-84	8503	1.000	4 + 1			
8573	4679 WOODLAN MHP	LEE	3-12-85	8503	1.000	< 2			
7754	4680 RANCH MCHL	JACKSON	2-21-85	8503	1.000	4 + 1			
0036	4681 OAK TERRACE	LOWNDES	3-19-85	8503	1.001	< 2			
7777	4682 FOREST LAKE EST.	TIFT	3-12-85	8503	1.000				
380	4683 SHADY SHOES	STEPHENS	2-26-85	8503	1.000				
326	4684 MARTIN, CITY OF	STEPHENS	3-12-85	8503	1.000	< 2			
399	4685 SHOREWOOD ESTATES	STEPHENS	3-12-85	8503	1.000	6 + 2			
241	4686 ROSE CITY MHP	THOMAS	9-17-84	8503	3.001				
158	4687 ATTAPULGUS, CITY OF	DECATUR	9-28-84	8503	3.002				
423	4688 MEADOWBROOK S/D	DECATUR	3-14-85	8503	1.001	2 + 2			
480	4689 PECAN PARK MHP	GRADY	3-19-85	8503	1.002	2 + 2			

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COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

Table 29

Exposure Rates at Nuclear Facilities  
Measured with TLD's

EAMA POWER NUCLEAR PLANT FARLEY ... 841128 TC 850319 : 111 DAYS

TLD#	MR	MICRR/FF	MR/YR
1.0 (+-)	22.5 2.3	8.4 0.9	73.9 7.5
2.0 (+-)	15.5 1.8	5.8 0.7	51.1 5.8
3.0 (+-)	15.1 1.7	5.7 0.6	49.8 5.5
4.0 (+-)	17.9 2.8	6.7 1.1	58.7 9.4
5.0 (+-)	13.5 1.9	5.1 0.7	44.5 6.1
6.0 (+-)	17.8 2.9	6.7 1.1	58.4 9.7
7.0 (+-)	20.3 2.3	7.6 0.9	66.8 7.6
8.0 (+-)	19.8 2.2	7.4 0.8	65.1 7.4
9.0 (+-)	16.1 2.5	6.1 0.9	53.1 8.1
11.0 (+-)	16.7 3.0	6.3 1.1	54.8 9.8
12.0 (+-)	16.8 1.9	6.3 0.7	55.2 6.3
13.0 (+-)	14.8 1.8	5.5 0.7	48.6 5.8
14.0 (+-)	14.7 2.1	5.5 0.8	48.4 6.8
15.0 (+-)	16.1 2.7	6.0 1.0	53.0 8.9
16.0 (+-)	15.4 1.9	5.8 0.7	50.5 6.3
17.0 (+-)	15.1 2.3	5.7 0.9	49.7 7.7
18.0 (+-)	19.8 2.1	7.4 0.8	65.2 7.0
19.0 (+-)	16.3 2.1	6.9 0.8	60.2 7.1

(+-)	2.2	0.8	7.4
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21.0	17.9	6.7	58.7
(+-)	2.1	0.8	6.9

22.0	21.2	7.9	69.6
(+-)	2.9	1.1	9.4

23.0	18.1	6.8	59.4
(+-)	2.2	0.8	7.2

24.0	21.3	8.0	70.1
(+-)	2.5	0.9	8.2

25.0	15.9	6.0	52.1
(+-)	2.4	0.9	8.0

26.0	15.8	5.9	51.8
(+-)	1.9	0.7	6.3

NET. AVG.:	17.3	6.5	56.9
(+-)	4.7	1.8	15.5

EAMA POWER NUCLEAR PLANT FARLEY ... 821020 TO 850319 : 879 DAYS

TLD#	MR	MICRR/HR	MR/YR
5.0 (+-)	104.5 12.3	5.0 0.6	43.4 5.1



TE BACKGROUND-NUCLEAR PLANT FARLEY ... 841128 TO 850319 : 111 DAYS

TLD#	MR	MICRR/HR	MR/YR
9.0 (+-)	19.4 2.2	7.3 0.8	63.9 7.2
10.0 (+-)	25.1 2.9	9.4 1.1	82.6 9.6
11.0 (+-)	17.5 2.0	6.6 0.7	57.5 6.5
12.0 (+-)	14.0 1.6	5.2 0.6	46.0 5.1
29.0 (+-)	18.0 2.3	6.8 0.9	59.3 7.5
30.0 (+-)	18.1 2.2	6.8 0.8	59.4 7.2
31.0 (+-)	21.4 2.4	8.0 0.9	70.4 8.0
32.0 (+-)	17.3 2.0	6.5 0.7	57.0 6.5
NET. AVG.: (+-)	18.9 6.6	7.1 2.5	62.0 21.6

E POWER OCONEE NUCLEAR PLANT ... 841121 TO 850322 : 121 DAYS

TLD#	MR	MICRR/HR	MR/YR
1.0 (+-)	40.9 4.1	14.1 1.4	123.4 12.4
2.0 (+-)	37.4 4.1	12.9 1.4	112.8 12.4
3.0 (+-)	25.8 2.9	8.9 1.0	77.8 8.7
4.0 (+-)	16.5 1.8	5.7 0.6	49.9 5.3
5.0 (+-)	24.2 4.4	8.3 1.5	73.0 13.2
6.0 (+-)	27.6 4.5	9.5 1.6	83.4 13.6
7.0 (+-)	26.9 3.8	9.3 1.3	81.0 11.4
9.0 (+-)	31.2 3.4	10.7 1.2	94.2 10.3
NET. AVG.: (+-)	28.8 15.3	9.9 5.3	86.9 46.3

TE BACKGROUND FOR DUKE POWER OCONEE NUCLEAR PLANT ...  
121 TO 850322 : 121 DAYS

TLD#	MR	MICRR/HR	MR/YR
19.0	33.3	11.5	100.3
(+-)	3.5	1.2	10.6
21.0	20.5	7.0	61.8
(+-)	2.5	0.8	7.4
NET. AVG.:	26.9	9.3	81.1
(+-)	18.1	6.2	54.6



GEORGIA INSTITUTE OF TECHNOLOGY  
OFFICE OF INTERDISCIPLINARY PROGRAMS  
205 OLD CIVIL ENGINEERING BUILDING  
ATLANTA, GEORGIA 30332

ENVIRONMENTAL RESOURCES CENTER  
(404) 894-~~2375~~ 1776

BIOENGINEERING CENTER  
(404) 894-2375

DATE: May 15, 1985

TO: James Hardeman, Program Manager  
Environmental Radiation Program  
Environmental Protection Division, DNR

FROM: Bernd Kahn, Director  
Environmental Resources Center

SUBJECT: Monthly Report of Activities for the State by the  
Environmental Radiation Laboratory, April, 1985

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The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental radionuclide monitoring at nuclear facilities by DNR staff	Table 1-17
Other samples collected by DHR staff	Table 18
Monitoring by DNR staff of community water systems	Table 19
Environmental radiation monitoring at nuclear facilities by DNR staff	Table 20

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity that may be attributed to the facility:

Tables 13, 15, 16 and 17--H-3 in milk, grass, fish, rainwater, and surface water at the Savannah River Plant.

All other radionuclides in Tables 1-17 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables. Samples No. B1251-3 and SR 1984-9 will be reported next month. Sample SR 1927, reported last month, was reanalyzed for gross alpha and gross beta particle activity after filtering the water. The filtered water showed a gross alpha value of  $<2$  pCi/l and a gross beta value of  $3 \pm 1$  pCi/l, indicating that the elevated values measured in the unfiltered sample were due to suspended solids.

The soil samples collected at the site of a Co-60 source in a steel plant included two that had elevated Cs-137 levels and some Co-60 (see Table 18).

Radioactivity results for community water supplies, compiled in Table 19, include complete data for samples WS4455-4552 and partial data for samples WS4553-4721.

No elevated radium concentrations ( $>5$  pCi/l) were measured. High uranium concentrations ( $>15$  pCi/l) were found in the following:

WS 4521 Spring Valley SD  
 WS 4572 White Water Creek  
 WS 4637 White Water Creek Dev.

Results for community water supplies continue to be reported in a different form this month due to computer difficulties.

TLD measurements obtained in the vicinity of the Georgia Tech Reactor, Kings Bay Submarine Base and Hatch, Sequoyah and Vogtle (SRP) Plants and at background locations are reported in Table 20. Ranges of exposure, in mR/yr, were:

<u>Location</u>	<u>Near Plant</u>	<u>Background</u>
Kings Bay	34 - 50	49 - 52
Hatch	36 - 67	47 - 82
Vogtle	39 - 80	52 - 92
Georgia Tech	90 - 997	-----
Sequoyah	49 - 75	46 - 102

All of the exposure rates are attributable to the natural radiation background, except one very high value (see above) at the Georgia Tech Research Reactor, but the background stations are not sufficiently matched to confirm this.

The following values in previous monthly reports were in error and should be corrected:

<u>Report month</u>	<u>Table</u>	<u>Sample No.</u>	<u>Radionuclide</u>	<u>Correct value</u>
Aug., 1984	13	SR 1636	Cs-137	120, not 210 pCi/kg
Mar., 1984	8	GT 160	Cs-137	50, not 820 pCi/kg
Sept., 1983	6	B 955	Cs-137	1,600 not 1,300 pCi/kg

Notes: Sample B 1081 (June 84, Table 3) also contains Co-60 (28 pCi/kg) and Cs-134 (95 pCi/kg); Sample B 932 (Sept. 83, Table 3) also contains Co-60 (30 pCi/kg) and Cs-134 (43 pCi/kg); Sample B 1171E (Nov 84, Table 5) also contains Cs-134 (94 pCi/kg); Sample B 1188N (Jan 85, Table 5) also contains Zn-65 (130 pCi/kg).

The types of samples and number of each that were analyzed are summarized in the following two tables.

Sample Types Analyzed in Month

<u>Sample Types</u>	<u>Analyzed in Month</u>
Community water supplies	82
Nuclear facilities	382
Quality control - EPA	17
Total	<u>481</u>

Number of Samples Analyzed in Month

	water	air filter	air cartridge	milk	grass, veg.	soil, sediment	animals	smears	TLD	TOTAL
gross alpha	96	4								100
gross beta	59	9								68
gamma spectra	22	3	6	9	15	2	1	3		61
H-3	51			5	13		1			70
SR-89/90										0
I-131	16			3						19
Ra-226	13									13
Ra-228	24									24
U	8									8
Pu										0
dose									118	118
other	289	16	6	17	28	2	2	3	118	481

Table 1

Radioactivity Levels in Soil Samples  
from the Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>			
			<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
B 1233	TLD # 20	0.99	190	300	700	700
B 1234	TLD # 16	0.99	<20	4,200	500	500
B 1235	TLD # 22	0.99	<40	11,400	2,300	2,900
B 1236	TLD # 28	1.00	78	2,100	800	900
B 1237	TLD # 44	0.96	120	1,600	500	600
B 1238	TLD # 45	0.99	230	1,100	700	900

---

Note: 1. Samples were collected on April 3, 1985.

2. No man-made photon-emitting radionuclides were detected.



Table 2

Radioactivity Levels in Water Samples from  
The Environment of the Hatch Nuclear plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
B 1239	TLD # 22, surface	< 2	3 $\pm$ 2	< 300	-----
B 1240	TLD # 48, surface	< 3	3 $\pm$ 2	300 $\pm$ 300	-----
B 1241	TLD # 19, ground	< 3	4 $\pm$ 2	< 200	-----
B 1242	TLD # 18, ground	2 $\pm$ 2	2 $\pm$ 2	< 200	-----
B 1243	TLD # 28, ground	< 2	< 3	< 200	-----
B 1244	TLD # 22, ground	< 2	3 $\pm$ 2	< 200	-----
B 1245	TLD # 44, ground	3 $\pm$ 2	2 $\pm$ 2	< 200	-----
*B 1257	Altamaha R., # 172	2 $\pm$ 2	6 $\pm$ 2	< 300	<6
*B 1258	Altamaha R. # 170	< 2	3 $\pm$ 2	< 200	<0.4

- 
- Notes:
1. Samples B 1239-1245 were collected on April 3, 1985; samples B1257-1258 were collected March 25-April 23, 1985, by Georgia Power Co. staff.
  2. I-131 was calculated as of the final day of the collection period.
  3. No man-made photon-emitting radionuclides were detected in samples B 1239-1240 and 1257-1258. (Cs-137 <20 pCi/l).

Table 3

Radioactivity Levels in Grass Samples from  
the Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>	
			<u>Cs-137</u>	<u>Be-7</u>
B 1246	TLD # 45	0.80	81	4,600
B 1247	TLD # 44	0.33	120	4,200
B 1248	TLD # 20	0.29	<70	2,300
B 1249	TLD # 28	0.088	<200	3,800
B 1250	TLD # 22	0.37	340	4,000
*B 1259	# 5	0.15	270	2,100
*B 1260	# 21	0.16	<100	2,900

---

Notes: 1. Samples B1246-1250 were collected on April 3, 1985; samples B1259-1260 were collected on April 15, 1985, by Georgia Power Co. staff.

2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 4

Radioactivity Levels in Milk Samples from  
the Environment of the Hatch Nuclear plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
* B 1254	Johnson Bros.	<6	1.7		< 0.4
* B 1255	GSP	<10	1.4		< 0.5
* B 1256	Williamson	<10	1.6		< 0.6

- 
- Notes: 1. Samples were collected on April 22, 1985, by Georgia Power  
Power Co. staff.
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 5

Radioactivity Levels in Air Samples from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m3</u>	<u>Radionuclide concen- tration, pCi/m3</u>	
				<u>I-131</u>	<u>Gross beta</u>
* B 1261	Cartridge Paper filter	Substation	3118	<0.004 -----	----- 0.011
* B 1262	Cartridge Paper filter	Plant Hatch	1057	<0.004 -----	----- 0.028
* B 1263	Cartridge Paper filter	Dead River Rd.	1245	<0.01 -----	----- 0.019

- 
- Notes: 1. Samples were collected on April 22, 1985, after 27-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 6

Radioactivity Levels in Water Sample from  
The Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F 881	Chattahoochee R., Great Southern Paper Co.	< 2	< 2	< 300	< 3

- 
- Notes: 1. Sample was collected on February 22-March 21, 1985.
2. I-131 was calculated as of the final day of the collection period.
3. No man-made photon-emitting radionuclides were detected (Cs-137 <20 pCi/l).

Table 7

Radioactivity Levels in Air Samples from the  
Environment in Georgia of the Farley Nuclear Plant

Sample No.	Sample type	Location	Volume, m3	Radionuclide concen- tration, pCi/m3	
				I-131	Gross beta
F 882	Cartridge Paper filter	Great Southern Paper Co.	3633	<0.001 -----	----- 0.007
F 886	Cartridge Paper filter	Great Southern Paper Co.	4273	<0.001 -----	----- 0.005

- 
- Notes: 1. Sample F882 was collected on March 21, 1985, after 27-day sampling; sample F886 was collected on April 30, 1985, after 40-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 8

Radioactivity Levels in Sediment Samples from the  
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>			
			<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
F 883	RSB-S5- 032085	0.74	<30	5,500	1,100	1,500
F 884	RSI-S5- 031985	0.79	<30	2,400	<200	<200

- 
- Notes: 1. Samples were collected on March 19-20, 1985, by Alabama Power Co. staff.
2. No other man-made photon-emitting radionuclides were detected.

Table 9

Radioactivity Levels in Soil Samples from the  
Environment of the Kings Bay Nuclear Submarine Base

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>			
			<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
KB 207	TLD # 5	0.99	230	700	300	300
KB 208	TLD # 8	1.00	62	2,100	400	<200
KB 209	TLD # 15	1.00	570	1,500	800	800
KB 210	TLD # 14	0.94	370	1,300	300	400

- 
- Notes: 1. Samples were collected on April 24-25, 1985.
2. No other man-made photon-emitting radionuclides were detected.



Table 10

Radioactivity Levels in Grass and Vegetation Samples from the  
Environment of the Kings Bay Nuclear Submarine Base

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>	
			<u>Cs-137</u>	<u>Be-7</u>
KB 211	TLD # 8	0.19	170	4,500
KB 212	TLD # 14	0.47	51	1,200
KB 213	Crab Island	0.70	41	4,100
KB 214	TLD # 15	0.48	95	1,500
KB 215	TLD # 5	0.11	250	3,700

- 
- Notes: 1. Samples were collected on April 24-25, 1985.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 11

Radioactivity Levels in Water samples from  
The Environment of the Kings Bay Nuclear Submarine Base

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>
KB 216	TLD # 14, ground	< 3	4 $\pm$ 2	< 200
KB 217	TLD # 8, ground	< 3	4 $\pm$ 2	< 200
KB 218	TLD # 5, ground	< 3	4 $\pm$ 2	< 200
KB 219	TLD # 15, ground	< 2	4 $\pm$ 2	< 200
KB 220	Lower Kings Bay, surf	<44	42 $\pm$ 5	< 200
KB 221	Upper Kings Bay, surf	<46	42 $\pm$ 6	300 $\pm$ 300

- 
- Notes: 1. Samples were collected on April 24-25, 1985.
2. The gross beta activity of KB220-221 is elevated because of K-40 in sea water; "less than" gross alpha activity values are high because only small volumes (10ml) could be used due to salt content.
3. No man-made photon-emitting radionuclides were detected in samples KB220-221 (Cs-137 <20 pCi/l).

Table 12

Radioactivity Levels in Soil Samples from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>			
			<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
SR 1939	TLD # 1	0.97	220	3,600	800	1,200
SR 1940	TLD # 6	0.93	260	14,000	1,200	1,500
SR 1941	TLD # 8	0.99	190	700	600	700
SR 1942	TLD # 10	0.99	35	2,600	600	1,400
SR 1943	TLD # 15	0.96	<20	18,000	1,100	1,200
SR 1944	TLD # 16	0.97	34	1,100	800	800
SR 1945	TLD # 17	1.00	<20	300	200	<200
SR 1946	TLD # 20	0.96	120	2,100	1,600	1,400
SR 1947	TLD # 22	0.97	190	1,100	800	1,500
SR 1948	TLD # 35	1.00	61	700	500	700
SR 1949	TLD # 25	0.99	45	1,200	700	800

---

Notes: 1. Samples were collected on April 4-5, 1985.

2. No other man-made photon-emitting radionuclides were detected.

Table 13

Radioactivity Levels in Water Samples from  
The Environment in Georgia of the Savannah River Plant

<u>Sample No</u>	<u>Location</u>	<u>Inches Rainfall</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 1950	TLD # 15 surface	----	< 2	3 $\pm$ 2	1,600 $\pm$ 200	-----
SR 1951	TLD # 6, surface	----	< 2	2 $\pm$ 2	<200	-----
SR 1952	TLD # 10, surface	----	< 2	2 $\pm$ 2	<200	-----
SR 1953	TLD # 17, surface	----	< 2	3 $\pm$ 2	3,300 $\pm$ 300	-----
SR 1954	TLD # 20, surface	----	< 2	4 $\pm$ 2	3,500 $\pm$ 300	-----
SR 1955	TLD # 16, surface	----	< 2	2 $\pm$ 2	1,600 $\pm$ 300	-----
SR 1959	TLD # 14, ground	----	< 2	2 $\pm$ 2	< 300	-----
SR 1960	TLD # 20, ground	----	< 2	4 $\pm$ 2	< 300	-----
SR 1961	TLD # 6, ground	----	< 2	< 2	< 300	-----
SR 1962	TLD # 11, ground	----	< 3	< 3	< 300	-----
SR 1963	TLD # 16, ground	----	< 2	< 3	< 300	-----
SR 1964	TLD # 25, ground	----	< 3	< 3	< 300	-----
SR 1965	TLD # 12, ground	----	< 1	< 3	< 300	-----
SR 1966	Savannah R., Hwy 301	----	< 2	7 $\pm$ 2	200 $\pm$ 200	-----
SR 1967	GPC simulator, rain	2.0	< 2	3 $\pm$ 2	8,900 $\pm$ 300	-----

Table 13 (cont)

<u>Sample No.</u>	<u>Location</u>	<u>Inches Rainfall</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131 pCi/l</u>
SR 1968	Augusta, rain	1.3	< 2	4 $\pm$ 2	3,300 $\pm$ 300	-----
SR 1969	Girard, rain	no data	< 2	< 3	5,200 $\pm$ 300	-----
SR 1970	Waynesboro, rain	1.3	< 2	4 $\pm$ 2	5,300 $\pm$ 300	-----
SR 1971	Ga. Welcome Sta., rain	1.7	< 2	3 $\pm$ 2	<200	-----
SR 1972	Hargrove Rd., rain	1.0	< 2	7 $\pm$ 3	13,700 $\pm$ 400	-----
SR 1983	I & D Water Supply, Port Wentworth	-	< 2	4 $\pm$ 2	3,300 $\pm$ 400	<0.4
SR 1991	N. Augusta, raw composite	-	< 2	4 $\pm$ 2	<200	-----
SR 1992	RM 150.4	-	< 1	<2	600 $\pm$ 300	-----
SR 1993	RM 146.7	-	2 $\pm$ 2	7 $\pm$ 2	2,200 $\pm$ 300	-----
SR 1994	RM 151.2	-	2 $\pm$ 2	4 $\pm$ 2	500 $\pm$ 300	-----
SR 1995	Port Wentworth, raw composite	-	2 $\pm$ 2	2 $\pm$ 2	3,100 $\pm$ 300	-----
SR 1998	Savannah R., R-2	-	< 2	3 $\pm$ 2	<300	< 1
SR 1999	Savannah R., R-3A	-	<1	3 $\pm$ 2	300 $\pm$ 300	< 1
SR 2000	Savannah R., R-10	-	<1	3 $\pm$ 2	2,300 $\pm$ 300	< 2
SR 2004	Savannah R., Hwy 301	-	<2	12 $\pm$ 2	<300	In Process
SR 2005	Ga. Welcome Sta., rain	0.7	<2	5 $\pm$ 2	<300	-----

Table 13 (cont)

<u>Sample No.</u>	<u>Location</u>	<u>Inches Rainfall</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 2006	Waynesboro, rain	1.0	< 2	2 $\pm$ 2	800 $\pm$ 300	-----
SR 2007	GPC simulator, rain	1.0	< 2	4 $\pm$ 2	<300	-----
SR 2008	Augusta, rain	0.8	< 2	4 $\pm$ 2	3,900 $\pm$ 400	-----
SR 2015	TLD # 17, ground	-	< 1	4 $\pm$ 1	<300	-----

1. Samples SR 1950-1955, 1959-1965 and 2015 were collected April 4-5, 1985; samples SR 1966-1972 were collected February 27-March 28, 1985; sample SR 1983 was collected April 2-9, 1985; samples SR 1991-1995 were collected on April 16, 1985, by Georgia Power Co. staff; samples SR 1998-2000 were collected on April 16, 1985; by Savannah River Plant staff; samples SR 2004-2008 were collected March 28-April 19, 1985.
2. No man-made photon-emitting radionuclides were found in samples SR 1950-1955, 1966, 1983, 1991-1995, 1998-2000, and 2004 (Cs-137 <20 pCi/l).
3. I-131 was calculated as of the final day of the collection period.

Table 14

Radioactivity Levels in Air Samples from the  
Environment in Georgia of the Savannah River Plant

Sample No.	Sample type	Location	Volume, m3	Radionuclide concen- tration, pCi/m3		
				I-131	Gross alpha	beta
SR 1956	Cartridge Paper filter	Ga. Welcome Ctr.	2974	<0.002 -----	----- <0.001	----- 0.002
SR 1957	Cartridge Paper filter	Augusta	1604	<0.006 -----	----- <0.001	----- 0.002
SR 1958	Cartridge Paper filter	Waynesboro	1061	<0.006 -----	----- <0.001	----- 0.004
SR 2009	Cartridge Paper filter	Augusta	1564	<0.006 -----	----- <0.001	----- 0.003
SR 2010	Cartridge Paper filter	Girard	1354	<0.006 -----	----- <0.001	----- 0.004
SR 2011	Cartridge Paper filter	GPC simulator	1189	<0.006 -----	----- <0.001	----- 0.003
SR 2012	Cartridge Paper filter	Hargrove Rd.	1362	<0.006 -----	----- <0.001	----- 0.003
SR 2013	Cartridge Paper filter	Waynesboro	1425	<0.006 -----	----- <0.001	----- 0.003
SR 2014	Cartridge Paper filter	Ga. Welcome Ctr.	1848	<0.004 -----	----- <0.001	----- 0.002

- 
- Notes: 1. Samples SR 1956 - 1958 were collected on March 29, 1985 after 29-day sampling; samples SR 2009-2014 were collected April 18, 1985 after 19-day sampling.
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 15

Radioactivity Levels in Grass Samples from the  
Environment in Georgia of the Savannah River Plant

Sample No.	Location	Dry wt/ Wet wt.	H-3, pCi/l	Radionuclide concentration, pCi/kg	
				Cs-137	Be-7
SR 1973	TLD # 35	0.23	5,100+300	<60	1,200
SR 1974	TLD # 22	0.17	600+200	<60	1,500
SR 1975	TLD # 10	0.31	22,700+400	<60	4,600
SR 1976	TLD # 17	0.30	800+200	<60	1,400
SR 1977	TLD # 25	0.22	3,600+200	<60	2,100
SR 1978	TLD # 15	0.28	3,200+200	<60	2,900
SR 1979	TLD # 6	0.26	1,000+200	<60	3,300
SR 1980	TLD # 1	0.43	800+200	<60	10,300
SR 1981	TLD # 16	0.28	4,400+300	91	3,200
SR 1982	TLD # 20	0.27	400+200	99	2,300
SR 2001	Hancock Landing	0.26	6,300+400	<60	900
SR 2002	Waynesboro	0.29	1,900+300	<60	1,300
SR 2003	GPC simulator	0.22	2,400+300	<60	<700

- 
- Notes: 1. Samples SR 1973-1982 were collected on April 4-5, 1985; samples SR 2001-2003 were collected on April 16, 1985, by Georgia Power Co. staff.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.



Table 16

Radiocitivity Levels in Fish from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Type</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Cs-137, pCi/kg</u>	<u>H-3, pCi/l</u>
SR 1990	White Catfish	RM 148.5	0.21	480	2,000+400

- 
- Notes: 1. Sample was collected on April 22, 1985, by Georgia Power Co. staff.
2. No other man-made photon-emitting radionuclides were detected (Co-60 <40 pCi/kg).

Table 17

Radioactivity Levels in Milk Samples from  
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 1996	Gracewood	< 6	1.7	600+300	< 6
SR 1997	Girard	<10	1.7	600+300	not analyzed

- 
- Notes:
1. Samples were collected on April 18, 1985, by Savannah River Plant staff.
  2. No other radionuclides were detected (Ba-140 <20 pCi/l).
  3. Deteriorated milk prevented low-level analysis for I-131 in sample SR 1997. Gamma-ray spectral analysis showed <26pCi/l.

Table 18

## Radioactivity Levels in Soil Samples from Atlanta

<u>Sample No.</u>	<u>Location</u>	<u>Co-60, pCi/kg</u>	<u>Cs-137, pCi/kg</u>
S 2463	-	65	5,800
S 2464	# 1	110	6,600
S 2465	# 2	<40	500
S 2466	# 3	<40	230
S 2467	blank	<20	<20

- 
- Notes: 1. Samples were collected by DHR staff at E.V. Camp Steel, 3510 N. Druid Hills, on April 16, 1985 (S2463) and April 30, 1985 (S2464-8).
2. No other man-made photon-emitting radionuclides were detected.
3. The reported concentration is relative to moist weight; for S2467, 0.5 kg was assumed, although it is an empty container.

Table 19

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8411 ... NOVEMBER, 1984 COMPLETE

SAMPLE VS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA FCI/L	RA- 226 FCI/L	FA- 228 FCI/L	URANIUM FCI/L
15012	4455 SADDLE BAGS MFP	LOWNIE	10-25-84	8411	1.000	2 + 1			
15137	4456 WRIGHTS TP	LOWNIE	10-18-84	8411	1.000	2 + 1			
13378	4457 GLENWOOD, CITY OF	WHEELER	10-30-84	8411	1.000	3 + 1			
22682	4458 NORFOLK, CITY OF	WARREN	10-30-84	8411	1.000	2 + 1			
08848	4459 GA CHRISTIAN SCHOOL	LOWNIE	10-25-84	8411	1.000	2 + 1			
04278	4460 ALEANY	DOUGHERTY	10-31-84	8411	1.000	< 1			
12198	4461 VILALIA, CITY OF	TCOMBS	10-25-84	8411	1.000	3 + 1			
27450	4462 ANGLER'S COVE ASER	LIBERTY	10 0-84	8411	4.001	< 1			
15120	4463 AVONDALE MFP	FIEL	10-25-84	8411	1.000	3 + 1			
05785	4464 CARNESVILLE, CITY OF	FRANKLIN	10-31-84	8411	4.004	3 + 1			
08811	4465 LAKE PARK, CITY OF	LOWNIE	10-25-84	8411	1.000	< 1			
20799	4466 CIRCLE	THOMAS	10-25-84	8411	4.003	3 + 1			
17011	4467 RUNAWAY POINT S/D	CHATHAM	10-16-84	8411	1.000	< 2			
03335	4468 DOUGLASS, CITY OF	COFFEE	10-25-84	8411	1.000	4 + 1	2.7		
22556	4469 WHITE MARSH ISLAND	CHATHAM	10-16-84	8411	1.000	< 1			
13369	4470 ALAMO, CITY OF	WHEELER	10-30-84	8411	1.000	82 + 3	17.6	1.6	< 2
02211	4471 PARKER CREEK S/D	CHATHAM	10-26-84	8411	1.000	< 1			
14824	4472 MOUNTVILLE, CITY OF	TRCUP	10 -5-84	8411	6.001	2 + 1			
08564	4473 GREENVIEW MFP	LEE	11 -2-84	8411	1.000	< 1			
05584	4474 SANDS MFP	COLQUITT	11 -5-84	8411	1.000	4 + 1	2.0		
14665	4475 WOODLAND LAKE S/D	LIBERTY	10-17-84	8411	1.000	< 1			
14533	4476 CANAL RL. MFP	CLYNN	10-23-84	8411	1.000	< 1			
08528	4477 LAKEVIEW MFP	LEE	11 -2-84	8411	1.000	< 1			
27876	4478 KEYRIDGE MFP	LEE	11 -2-84	8411	1.000	< 1			
15846	4479 SEMINOLE MFP	CLARKE	11 -6-84	8411	3.000	26 + 2	7.9	1.5	30 + 2
11906	4480 COOLIDGE, CITY OF	THOMAS	11 -1-84	8411	1.000	4 + 2	1.3		
01801	4481 FORT MCINOCSE MFP S	HANLEY	10-25-84	8411	1.000	2 + 1			
08701	4482 LAKE GEORGE S/D	LIBERTY	10-17-84	8411	1.000	< 1			
18388	4483 RIVER HEAD S/D	CHATHAM	10-16-84	8411	1.000	< 2			
2431	4484 THE BLUFF S/D	CHATHAM	10-23-84	8411	1.000	< 2			
2248	4485 THE LANINGS S/D	CHATHAM	10-26-84	8411	1.000	< 2			
14824	4486 MOUNTVILLE, CITY OF	TRCUP	11 -5-84	8411	6.000	4 + 1	0.3		
4824	4487 MOUNTVILLE, CITY OF	TRCUP	11 -5-84	8411	4.003	14 + 2	2.3	4.0	10 + 1
7909	4488 TURTLE COVE	JASPER	11 -1-84	8411	4.009	< 2			
8125	4489 BUICH'S TP	FEACI	11 -8-84	8411	1.000	2 + 2			
7241	4490 ROSE CITY MFP	THOMAS	11 -9-84	8411	3.000	3 + 2	0.9		
1577	4491 WHISPERING PINE EST	TIFT	11 -9-84	8411	6.000	19 + 3	9.0	< 1.0	< 2
5557	4492 FINEY GROVE S/D	COLQUITT	11 -6-84	8411	1.000	< 2			
8536	4493 DAYLEY'S MFP	LOWNIE	11 -6-84	8411	1.000	< 2			
4985	4494 REGISTER MFP	LOWNIE	11 -6-84	8411	1.000	< 2			
3216	4495 SANLEFSVILLE, CITY OF	WASHINGTON	11-13-84	8411	4.004	2 + 2			
7717	4496 FAWN HEIGHTS S/D	BROOKS	11 -8-84	8411	4.001	< 2			
3708	4497 BARRETT HILLS S/D	FORSYTH	10-31-84	8411	4.003	9 + 2	0.6	< 1.0	
3543	4498 EULONIA W.S.	MCINOCSE	10-13-84	8411	4.000	< 2			
3130	4499 ROYAL COURT MFP	CLAYTON	11-16-84	8411	6.000	34 + 3	9.5	< 1.0	27 + 2
5519	4500 KINGAPOONEE MFP	LEE	11 -5-84	8411	1.000	< 1			
1536	4501 CAK RIDGE TP	TIFT	11 -9-84	8411	6.000	570 + 7	113	1.4	< 2
7723	4502 JONES MFP	WINNETT	11-19-84	8411	4.002	2 + 2			
427	4503 ASHFURN, CITY OF	TURNER	11-15-84	8411	4.005	< 1			
111	4504 WINNY CREEK S/D		11-24-84	8411	4.002	3 + 1			

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SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAI DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
###	4505 FAMILY LIFE ENR CEMT		11-24-84	8411	4.002	< 1			
###	4506 WINDY CREEK S/D		11-24-84	8411	4.001	1 + 1			
2718	4507 FAMILY LIFE ENR CEMT	COONEE	11-24-84	8411	4.001	3 + 1			

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SAMPLE NO #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	CROSS ALPHA PCI/L	FA- 226 PCI/L	FA- 228 PCI/L	URANIUM PCI/L
27527	4508 HAZLEHURST, CITY OF	JEFF DAVIS	11-26-84	8412	4.001	9 + 2	3.8	5.9	
27762	4509 FLAMINATION ACRES MHP	MCCLUFFIE	11-16-84	8412	4.000	< 1			
33744	4510 ELDER HEIGHTS	COCKEE	11-27-84	8412	4.002	< 1			
18852	4511 WALTHAMURVILLE, CITY	LIFERITY	11-27-84	8412	4.002	< 1			
06104	4512 GRAY, CITY OF	JONES	11-26-84	8412	4.008	16 + 2	1.5	1.4	15 + 1
06104	4513 GRAY, CITY OF	JONES	11-16-84	8412	4.009	36 + 3	0.8	< 1.0	44 + 4
06616	4514 LEE CO. CORR. INST.	LEE	11-14-84	8412	1.000	< 1			
27382	4515 MCNEIL MANOR ESTATE	PEACH	11-16-84	8412	1.000	< 2			
03649	4516 GROVERDAWN, CITY OF	COLUMBIA	11-19-84	8412	1.000	2 + 1			
21980	4517 SANDY PINES MHP	LAURENS	11-20-84	8412	1.000	< 1			
06467	4518 LEEBURG, CITY OF	LEE	11-27-84	8412	1.000	< 1			
20510	4519 TIFT AREA MHP	TIFT	11-14-84	8412	1.000	2 + 2			
06591	4520 LEE HIGH ACRES S/L	LEE	11-27-84	8412	1.000	< 1			
35354	4521 SPRING VALLEY S/L	NEWTON	8-14-84	8412	1.000	210 + 6	17.5	< 1.0	179 + 14
04158	4522 ATTAULGUS, CITY OF	DECATUR	11-20-84	8412	3.001	13 + 2	4.8	< 1.0	6 + 1
12137	4523 WILSON'S MHP	TIFT	11-14-84	8412	1.000	< 1			
21845	4524 LARRELS MHP	LOWNDES	11-13-84	8412	1.000	< 1			
21056	4525 ROLLING HILLS MHP	PEACH	11-19-84	8412	1.000	< 1			
05072	4526 RIVER PARK	LOWNDES	10-16-84	8412	1.000	4 + 1	1.3		
22510	4527 M & T WATER WORKS	TOONIE	11-27-84	8412	6.000	12 + 2	5.7	< 1.0	
21683	4528 PEEPLE HILL PLANT.	THOMAS	11-27-84	8412	1.000	4 + 2	1.1		
14643	4529 COUNTRY'S MHP	LAURENS	11-20-84	8412	1.000	< 1			
08537	4530 LEE ESTATES	LEE	11-28-84	8412	1.000	< 1			
04158	4531 ATTAULGUS, CITY OF	DECATUR	11-20-84	8412	3.000	27 + 3	10.9	< 1.0	3 + 1
19833	4532 MEADOW HAVEN MHP	HOUSTON	11-27-84	8412	6.000	44 + 2	12.5	2.3	< 2
12771	4533 LAFAYETTE, CITY OF	VALVER	12 -4-84	8412	0.000	< 1			
23675	4534 LE LAIGLE MHP	BURKE	12 -3-84	8412	4.003	< 1			
16694	4535 BOWEN MHP	MITCHELL	11-29-84	8412	1.000	2 + 2			
18435	4536 WHITNER MHP	LOWNDES	11-29-84	8412	1.000	< 1			
11111	4537 ANGLCO-ANEP. CLAY CO.		11-29-84	8412	4.000	2 + 1			
7545	4538 KINGSCOLL S/L	JACKSON	11-26-84	8412	1.000	< 1			
8963	4539 FOYECROUCH S/L	LOWNDES	11-27-84	8412	1.000	< 2			
0698	4540 CUTHBERT, CITY OF	PANICHER	12 -6-84	8412	4.000	< 1			
5070	4541 STEWART'S MHP	JACKSON	12 -6-84	8412	1.000	< 1			
7597	4542 CRAWFORD HILL S/L	THOMAS	12 -4-84	8412	1.000	< 1			
9684	4543 INDIAN MCNEIL ESTATE	SCHEVEN	12 -4-84	8412	1.000	< 1			
6381	4544 CINDY DRIVE S/L	THOMAS	12 -4-84	8412	1.000	3 + 1			
5609	4545 YANCEY TRAILER RENT.	COLUMBIA	12 -5-84	8412	1.000	< 1			
3579	4546 SHERWOOD FOREST MHP	PEACH	12 -6-84	8412	1.000	< 1			
1103	4547 SYLVANIA, CITY OF	SCHEVEN	12 -5-84	8412	1.000	< 1			
5815	4548 CANE CREEK TP	LUMKIN	11-27-84	8412	3.000	< 1			
0216	4549 MAYESVILLE, CITY OF	HANKE	12-12-84	8412	1.000	< 1			
0610	4550 INDIAN BRANCH MHP	SCHEVEN	10-24-84	8412	1.000	6 + 2	2.8	1.0	
0017	4551 FAXLEY, CITY OF	APPLING	12 -6-84	8412	4.004	9 + 2	2.0	< 1.0	
0207	4552 HOMER, CITY OF	HANKE	12-12-84	8412	1.000	8 + 2	0.3	< 1.0	

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SAMPLE VS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
27862	4553 ANNEELAKEE N.SYST. 2	FOLK	1-3-85	8501	4.002	7 + 2	0.9	2.5	
11524	4554 FLAINS, CITY CF	SUMTER	1-4-84	8501	4.006	8 + 2	2.5	1.7	
27871	4555 ANNEELAKEE N.SYST. 2	FOLK	1-3-85	8501	4.001	< 1			
11524	4556 FLAINS, CITY CF	SUMTER	1-4-85	8501	4.005	3 + 1			
26238	4557 HIDDEN ACRES S/L	THOMAS	1-8-85	8501	4.000	< 1			
43325	4558 ROEINS AFB	HOUSTON	12-14-84	8501	1.000	3 + 1			
17241	4559 ROSE CITY MHP	THOMAS	12-12-84	8501	3.000	3 + 1			
14616	4560 WOODLAND TRAILS MHP	LAURENS	1-3-85	8501	1.000	2 + 2			
00466	4561 ALAPAH, CITY CF	BERRIEN	12-19-84	8501	3.000	25 + 3	7.8	< 1.0	< 2
13887	4562 THUNDERING SPRING INC	LAURENS	12-18-84	8501	1.000	< 2			
08223	4563 LAKELAND, CITY CF	LANIER	12-19-84	8501	1.000	4 + 1	1.8		
08433	4564 TAFFLEY'S MHP	LAURENS	12-18-84	8501	1.000	< 1			
09721	4565 FELIPA, CITY CF	MICHELL	12-19-84	8501	1.000	2 + 1			
25105	4566 CONNER MHP	WORTH	12-11-84	8501	1.000	2 + 1			
07341	4567 TUGALOC EAY	HART	12-21-84	8501	3.000	18 + 3	1.8	< 1.0	
26132	4568 LAIRY TRACT	JEFFERSON	12-20-84	8501	1.000	< 2			
17279	4569 SCHROER ESTATES	LOWNIE	12-17-84	8501	1.000	< 2			
16495	4570 BRITTANY FARMER SCU.	FRANKLIN	12-21-84	8501	3.000	61 + 7		< 1.0	
00475	4571 ENIGMA, CITY CF	BERRIEN	12-19-84	8501	3.000	7 + 1		< 1.0	
#####	4572 WHITE WATER CREEK		1-17-85	8501	4.001	43 + 4	5.5	1.4	43 + 3
14567	4573 FINE CIRCLE T/P	LOWNIE	1-15-85	8501	4.002	< 2			
39612	4574 KINGS CAP UTILITIES	HARRIS	1-14-85	8501	4.000	< 1			
#####	4575 QUEENSLAND CONN.		1-15-85	8501	4.001	3 + 1			
24877	4576 EL DORAIC WATER SUFF	TIFT	1-16-85	8501	4.000	2 + 1			
12155	4577 TIFTON IND. PARK	TIFT	1-16-85	8501	4.004	20 + 3	4.0	< 4.0	< 2
12155	4578 TIFTON IND. PARK	TIFT	1-16-85	8501	4.005	79 + 5	11.6	< 1.0	2 + 1
06476	4579 ST. THOMAS, CITY CF	LEE	1-17-85	8501	1.000	< 1			
25783	4580 WINDING WAY EST.	CUTTAN	1-22-85	8501	1.000	< 1			
12605	4581 SIZLAND T/P	IRWIN	1-16-85	8501	1.000	< 1			
24251	4582 CAMPBELL WATER SYST	DOUGHERTY	1-7-85	8501	1.000	< 1			
25004	4583 FOXCREST S/L	THOMAS	1-4-85	8501	1.001	2 + 2			
16224	4584 LEE VILLA S/D	LEE	1-22-85	8501	1.000	< 1			
7065	4585 FOREST ESTATES S/D	IRWIN	1-16-85	8501	1.000	< 2			

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0800	4586 ALLATOONA MHP	FARTCH	1-29-85	8502	4.004	3 + 1			
7607	4587 TRCUP CREEK MARINA	CLYNN	1-23-85	8502	4.000	2 + 1			
4953	4588 SPRING VALLEY S/D	NEWTON	1-25-85	8502	4.000	216 + 8	18.7	< 1.0	174 + 14
0800	4589 ALLATOONA MHP	FARTCH	1-29-85	8502	4.003	5 + 1	1.0		
1063	4590 ELLAVILLE, CITY OF	SCHLEY	1-24-85	8502	4.005	2 + 1			
7653	4591 WILDWOOD ESTATES	WALTON	1-25-85	8502	4.000	4 + 1	0.8		
6869	4592 RED FARM MHP	LECATUR	1-28-85	8502	1.000	3 + 1			
8555	4593 PLANTATION MHP	LEE	1-23-85	8502	1.000	< 1			
8909	4594 FAILEY'S MHP	LOWNIES	1-24-85	8502	1.000	2 + 1			
1801	4595 FLINTWOOD S/D	LECATUR	1-28-85	8502	1.000	< 1			
2428	4596 QUAIL RIDGE MHP S/D	FORSEYTH	1-21-85	8502	1.000	< 1			
7058	4597 SHADY GROVE TP	HALL	1-30-85	8502	1.000	2 + 1			
2955	4598 WATSON TP	TURNER	1-23-85	8502	1.000	1 + 1			
2454	4599 EROWN'S W.S.	TURNER	1-23-85	8502	1.000	2 + 1			
3236	4600 LIXIE MHP	HALL	1-30-85	8502	1.000	3 + 1			
7935	4601 FAHALISE MHP	LOWNIES	2 -1-85	8502	4.001	4 + 2	1.4		
7899	4602 THE ELUFF-ELLE ISLE	FRYAN	1 -7-85	8502	4.001	< 2			
6664	4603 DERRICK S/D	CHATHAM	1-29-85	8502	4.000	< 2			
3757	4604 COCK'S MHP	CAPWELL	1 -5-85	8502	4.002	< 2			
2736	4605 PARQUE'S MHP	JACKSON	1-30-85	8502	4.003	6 + 2	0.2	< 1.0	
2736	4606 PARQUE'S MHP	JACKSON	2 -1-85	8502	4.004	6 + 2		< 1.0	
7054	4607 MILLIKEN AND CC.	HALL	1-31-85	8502	1.000	< 2			
7685	4608 MILLIKEN AND CC.	HALL	1-31-85	8502	1.000	< 2			
7849	4609 HALL CC. CORRECTIONS	HALL	1-31-85	8502	1.000	2 + 1			
3494	4610 FIC CAR S/D	LEE	2 -4-85	8502	1.000	< 2			
5148	4611 PAINYFA MHP	LEE	2 -4-85	8502	1.000	< 1			
3444	4612 EROWN THOS. FARM S/D	MADISON	2 -6-85	8502	4.006	3 + 1			
5000	4613 THE OAKS NURSE HOME	MADON	2 -5-85	8502	4.002	3 + 1			
1297	4614 MCHELEWCHLI-FOREST	ETHEL	2 -7-85	8502	4.007	< 2			
1488	4615 ARCADE MHP	JACKSON	2 -7-85	8502	1.000	< 2			
1030	4616 JACKSON CO. CORR INS	JACKSON	0 0-85	8502	1.000	3 + 1			
1586	4617 CROOKED CREEK VILL.	JACKSON	0 0-85	8502	1.000	5 + 1			
941	4618 CHAMBER'S MHP	LEE	2 -5-85	8502	1.000	< 2			
750	4619 EAR V. MHP	TIFT	2 -5-85	8502	1.000	< 2			
814	4620 NICHOLSON V.A.	JACKSON	2 -7-85	8502	1.000	3 + 1			
012	4621 THE POTTER'S HOUSE	JACKSON	2 -7-85	8502	1.000	4 + 1			
501	4622 FRUITFANY BARBER WEST	FRANKLIN	12-21-84	8502	3.000	35 + 3			
828	4623 FINE HAVEN MHP	JACKSON	2 -5-85	8502	1.000	14 + 2			
799	4624 HUSCHICK, CITY OF	JACKSON	2 -4-85	8502	1.000	< 2			
743	4625 PINE HILL MHP	COCK	2-11-85	8502	3.000	131 + 6			
167	4626 EATNERIDGE, CITY OF	LECATUR	2-11-85	8502	1.000	< 2			
292	4627 NEWARK V.S.	THOMAS	2 -7-85	8502	1.000	< 2			
146	4628 EOWEN-VRIGHI S/D	TIFT	2 -5-85	8502	1.000	< 2			
705	4629 SYLVESTER, CITY OF	WORTH	1-31-85	8502	1.002	< 2			
99	4630 SUMNER, CITY OF	WORTH	2 -5-85	8502	1.001	10 + 2			
139	4631 LUMPKIN, CITY OF	STEWART	1-31-85	8502	1.000	2 + 1			
84	4632 COLONY MHP	JACKSON	2 -5-85	8502	1.000	2 + 1			
109	4633 MINEOLA MHP	LOWNIES	2 -7-85	8502	1.001	< 2			
39	4634 EROWNCCI, CITY OF	THRELL	1-31-85	8502	1.000	< 2			
42	4635 EREMYCCI NORTH S/D	LEE	2 -4-85	8502	1.000	2 + 1			

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08893	4636 ACADEMY ACRES S/D	LOWNEE	2-14-85	8502	1.001	3 + 1			
11457	4637 WHITEWATER CREEK DEV		2 -7-85	8502	4.002	62 + 4	0.8	< 1.0	85 + 7
26549	4638 BALD RIDGE ON LANIER	FORSYTH	2 -6-85	8502	1.000	< 1			
11457	4639 RICHLAND, CITY OF	STEWART	2-14-85	8502	1.000	< 1			

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SAMPLE VS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/. WELL	GROSS ALPHA FCI/L	RA- 226 FCI/L	FA- 228 FCI/L	UFANIUM FCI/L
00546	4640 FINEVIEW MHP	LEE	2-15-85	8503	1.000	< 2			
20028	4641 LOCKIN S/D	LOWNDES	2-20-85	8503	1.001	5 + 1			
21936	4642 OAK RIDGE MHP	TIFT	2-21-85	8503	1.000	594 + 18			
226405	4643 DECATUR CO CORR INST	DECATUR	2-19-85	8503	1.001	< 1			
22049	4644 CHATTAHOOCHEE PLAM.	QUITMAN	2-21-85	8503	1.000	< 2			
009673	4645 WORTH CORR. INST.	MERIWETHER	2 -1-85	8503	1.000	5 + 1			
112119	4646 FITTS TR	TIFT	2-21-85	8503	1.000	< 2			
21570	4647 LEE'S MHP	TERRELL	2-21-85	8503	1.000	2 + 1			
05502	4648 OCUMRY CIRCLE S/D	COLQUITT	1-29-85	8503	1.000	8 + 2			
36733	4649 SHALY ACRES MHP	TOONES	2-26-85	8503	1.000	3 + 1			
26647	4650 MILLER PINES S/D	CHATMAN	2-25-85	8503	4.000	2 + 1			
27926	4651 LAKE LILLIGUAN	THOMAS	2-27-85	8503	4.001	2 + 1			
14824	4652 MOUNTVILLE W.A.	TROUP	3 -4-85	8503	4.004	84 + 3			
15058	4653 MOODY AFB	LOWNDES	2-28-85	8503	1.003	2 + 1			
11857	4654 PARROT, CITY OF	TERRELL	2-26-85	8503	1.000	< 2			
21561	4655 LAZY PINES MHP	TERRELL	3 -4-85	8503	1.000	< 1			
11890	4656 HOUSTON, CITY OF	THOMAS	2-28-85	8503	1.003	< 2			
17241	4657 ROSE CITY MHP	THOMAS	2-27-85	8503	1.001	5 + 1			
03130	4658 ROYAL COURT MHP	CLAYTON	2-28-85	8503	3.000	60 + 3			
07582	4659 FERRY, CITY OF	HOUSTON	2-26-85	8503	1.000	5 + 1			
00635	4660 QUITMAN, CITY OF	HOCKS	3-28-85	8503	1.002	2 + 1			
25919	4661 FARGETT'S TR	EEN HILL	3-26-85	8503	1.000	< 2			
27409	4662 ARCYLE VILLAGE S/D	CHATMAN	2-22-85	8503	0.001	< 1			
03439	4663 ELLENOR, TOWN OF	COLQUITT	3 -5-85	8503	1.000	7 + 2			
25783	4664 WINLING WAY EST.	QUITMAN	3 -6-85	8503	1.000	< 1			
05548	4665 RUFUS NORMAN MHP	COLQUITT	3 -5-85	8503	1.000	7 + 2			
3344	4666 FRESTON, CITY OF	WEBSTER	3 -6-85	8503	1.000	1 + 1			
27644	4667 LAUREL CROSSING	FANNIN	3 -2-85	8503	4.001	5 + 1			
4877	4668 ELLCRAFT	TIFT	3-22-85	8503	4.000	41 + 5			
2155	4669 TIFTON IND PARK	TIFT	3-22-85	8503	4.004	17 + 3	3.6	< 1.0	
4877	4670 ELLCRAFT	TIFT	3-22-85	8503	4.000	40 + 5			
2155	4671 TIFTON IND PARK	TIFT	3-22-85	8503	4.005	43 + 3			
2155	4672 TIFTON IND PARK	TIFT	3-22-85	8503	4.000	14 + 3			
8122	4673 JONES COUNTY W.S.	JONES	3-18-85	8503	4.005	< 2			
5425	4674 HARRIS MHP	OWKETA	8-14-84	8503	1.000	< 2			
0408	4675 HORACE DOLLAR MHP	GRADY	3-19-85	8503	1.001	2 + 2			
2961	4676 KELLY PINES MHP	LOWNDES	8-21-84	8503	1.001	< 2			
2274	4677 RIDGECREST CIRCLE HO	TCOAS	3-20-85	8503	1.000	< 2			
3610	4678 EAST NEWMAN W.S.	OWKETA	8-14-84	8503	1.000	4 + 1			
2573	4679 WOODLAND MHP	LEE	3-12-85	8503	1.000	< 2			
2754	4680 RANCHO NORTH	JACKSON	2-21-85	8503	1.000	4 + 1			
0036	4681 OAK TERRACE	LOWNDES	3-19-85	8503	1.001	< 2			
2777	4682 FOREST LAKE EST.	TIFT	3-12-85	8503	1.000	9 + 2			
380	4683 SHALY SHORES	STEPHENS	2-26-85	8503	1.000	6 + 2			
326	4684 MARTIN, CITY OF	STEPHENS	3-12-85	8503	1.000	< 2			
399	4685 SHOREWOOD ESTATES	STEPHENS	3-12-85	8503	1.000	6 + 2			
241	4686 ROSE CITY MHP	THOMAS	9-17-84	8503	3.001	4 + 1			
158	4687 ATTAFULCUS, CITY OF	DECATUR	9-28-84	8503	3.002	2 + 2			
423	4688 MEADOWCREEK S/D	DECATUR	3-14-85	8503	1.001	2 + 2			
480	4689 PECAN PARK MHP	GRADY	3-19-85	8503	1.002	2 + 2			

TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER

COLLECT DATE TYPE 0 2 5 = COMPOSITE DATE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/. WELL	GROSS ALPHA PCI/L	FA- 226 PCI/L	FA- 228 PCI/L	URANIUM PCI/L
1410	4690 JENKINSBURG, CITY CF	FULTS	3-25-85	8504	4.002	2 + 1			
3436	4691 SKY LAKE INC	WHITE	3-26-85	8504	1.000	< 2			
5883	4692 ECSTIVICK, CITY CF	MORGAN	3-27-85	8504	1.000	< 2			
5755	4693 CULLODEN, CITY CF	MONROE	3-19-85	8504	3.002	< 2			
0466	4694 ALAPALA, CITY CF	HEFRIEN	3-21-85	8504	3.001	17 + 3			
4259	4695 CHESTER, CITY CF	DOICE	3-26-85	8504	1.000	< 2			
4240	4696 CHAUNCEY, CITY CF	DOICE	3-26-85	8504	1.000	2 + 2			
3920	4697 PAWL'S S/D	LAUFENS	2-27-85	8504	1.000	< 1			
6727	4698 PEACEFUL VALLEY SD	WHITE	3 -2-85	8504	1.000	4 + 2			
0475	4699 ENIGMA, CITY CF	HEFRIEN	3-21-85	8504	3.002				
5517	4700 VALICSTA C.C.	LOWNDES	3-28-85	8504	1.001	2 + 1			
1971	4701 THUNDERBOLT, TOWN CF	CHATHAM	4-11-85	8504	4.003	2 + 2			
2718	4702 FAMILY LIFE ENR CTR	COONEE	3-28-85	8504	1.000	< 1			
1057	4703 ELKS AIRMORE HOME	ROCKDALE	4 -4-85	8504	1.000	< 2			
3475	4704 RIVERSIDE, TOWN CF	COLQUITT	4 -5-85	8504	1.000	< 3			
0008	4705 MANSFIELD, CITY CF	NEWTON	4 -4-85	8504	1.000	13 + 2			
4378	4706 ALBANY, CITY CF	DOUGHERTY	3-28-85	8504	4.035	< 2			
0240	4707 STATHAN, CITY CF	FARRCH	4-11-85	8504	4.000				
9532	4708 CHATSWORTH, CITY CF	MURRAY	4-18-85	8504	4.000	2 + 1			
3953	4709 MEADOWVIEW S/D	COVETA	4-23-85	8504	4.004	2 + 1			
3630	4710 COLUMBIA CO. W.S.	COLUMBIA	4 -4-85	8504	4.001	< 2			
7366	4711 FRANKLIN/HEARD W.A.	HEART	4-19-85	8504	4.000	< 1			
1191	4712 DONALSONVILLE	SEBINGLE	4-16-85	8504	4.004	< 2			
7343	4713 ALCOVY MHP	NEWTON	4-23-85	8504	1.000	< 1			
7391	4717 MEADOWBROCK MHP	NEWTON	4-23-85	8504	1.000	< 2			
5653	4715 WINDY ACRES MHP	COLUMBIA	4-11-85	8504	1.001	< 1			
9532	4716 CHATSWORTH, CITY CF	MURRAY	4-18-85	8504	3.000	< 2			
5114	4717 PINE VALLEY S/D	NEWTON	4-23-85	8504	1.000				
7468	4718 TRUEL'S MHP	NEWTON	4-23-85	8504	1.000	< 2			
9408	4719 DANIELEVILLE	MADISON	4-16-85	8504	1.000				
0190	4720 LEXINGTON, CITY CF	COLETHORPE	4-16-85	8504	1.000				
5026	4721 ASHFET MHP	LOWNDES	4-22-85	8504	1.001	< 2			

TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

Table 20

Exposure Rates at Nuclear Facilities  
measured with TLD's

CS FAY ... 840808 - 850425 : 260 DAYS

TLD#	ME	MICRR/HR	MR/YR
2.0 (+-)	30.5 2.9	4.9 0.5	42.9 4.1
3.0 (+-)	34.0 3.4	5.5 0.6	47.8 4.8
4.0 (+-)	32.5 4.1	5.2 0.7	45.6 5.7
6.0 (+-)	31.6 3.1	5.1 0.5	44.4 4.3
7.0 (+-)	35.7 3.8	5.7 0.6	50.1 5.4
12.0 (+-)	28.8 4.0	4.6 0.6	40.4 5.7
13.0 (+-)	24.1 2.9	3.9 0.5	33.8 4.0
14.0 (+-)	25.6 2.6	4.1 0.4	36.0 3.7
15.0 (+-)	33.3 3.2	5.3 0.5	46.7 4.4
16.0 (+-)	32.4 3.7	5.2 0.6	45.5 5.2
18.0 (+-)	35.3 5.2	5.7 0.8	49.6 7.3
19.0 (+-)	30.0 3.1	4.8 0.5	42.1 4.4
20.0 (+-)	31.9 3.0	5.1 0.5	44.7 4.1
NET. AVG.: (+-)	31.2 6.9	5.0 1.1	43.8 9.7

CS EAY ... 840403 - 850425 : 387 DAYS

TLL#	LR	MICRR/FR	MR/YR
11.0	49.2	5.3	46.4
(+-)	5.6	0.6	5.3

THE BACKGROUND FOR KINGS LAY ... 840808 - 850425 : 260 DAYS

TLD#	MF	MICRR/HR	MF/YR
22.0	37.3	6.0	52.4
(+-)	4.3	0.7	6.0
24.0	35.1	5.6	49.3
(+-)	4.6	0.7	6.5
25.0	36.7	5.9	51.6
(+-)	5.1	0.8	7.1
26.0	36.7	5.9	51.6
(+-)	5.0	0.8	7.0
NET. AVG.:	36.5	5.8	51.2
(+-)	1.9	0.3	2.6

TLD#	NR	MICRR/LR	NR/YR
1.0	13.2	6.5	56.8
(+-)	1.5	0.7	6.4
2.0	13.8	6.8	59.3
(+-)	2.4	1.2	10.4
3.0	13.0	6.3	55.6
(+-)	1.3	0.7	5.7
4.0	10.1	5.0	43.6
(+-)	1.7	0.8	7.3
5.0	11.6	5.7	49.9
(+-)	1.3	0.6	5.5
6.0	10.5	5.2	45.3
(+-)	1.3	0.7	5.8
7.0	11.2	5.5	48.1
(+-)	1.2	0.6	5.1
8.0	11.7	5.7	50.1
(+-)	1.2	0.6	5.2
9.0	11.1	5.4	47.7
(+-)	1.5	0.8	6.6
10.0	11.3	5.5	48.3
(+-)	1.4	0.7	5.8
11.0	10.0	4.9	43.1
(+-)	1.5	0.8	6.6
12.0	10.9	5.3	46.9
(+-)	1.2	0.6	5.2
13.0	15.6	7.7	67.2
(+-)	2.1	1.0	9.1 ... <> 95% NORMAL LIST.
14.0	10.2	5.0	43.9
(+-)	1.6	0.8	6.7
15.0	11.7	5.7	50.3
(+-)	1.3	0.6	5.5
16.0	10.3	5.0	44.2
(+-)	1.2	0.6	5.0
17.0	10.8	5.3	46.6
(+-)	1.2	0.6	5.0
18.0	13.2	6.5	56.6
(+-)	1.9	0.9	8.2
20.0	10.7	5.3	46.1
(+-)	1.2	0.6	5.1

(+-)	1.8	0.9	7.8
22.0 (+-)	13.1 1.8	6.4 0.9	56.1 7.7
23.0 (+-)	10.2 1.5	5.0 0.7	44.0 6.4
24.0 (+-)	11.1 1.6	5.4 0.8	47.7 6.7
25.0 (+-)	9.4 1.5	4.6 0.8	40.4 6.6
26.0 (+-)	8.6 1.2	4.2 0.6	37.1 5.3
27.0 (+-)	11.6 1.9	5.8 1.0	50.7 8.3
28.0 (+-)	12.9 1.6	6.3 0.8	55.2 7.1
29.0 (+-)	8.8 1.1	4.3 0.5	37.8 4.7
30.0 (+-)	12.7 1.7	6.2 0.8	54.7 7.2
31.0 (+-)	9.9 2.3	4.9 1.1	42.5 9.9
32.0 (+-)	12.0 2.1	5.9 1.1	51.5 9.2
33.0 (+-)	11.3 1.2	5.6 0.6	48.6 5.1
34.0 (+-)	11.9 1.7	5.8 0.9	51.1 7.5
35.0 (+-)	14.0 2.6	6.9 1.3	60.0 11.3
36.0 (+-)	8.4 1.3	4.1 0.7	35.9 5.7
37.0 (+-)	12.0 2.4	5.9 1.2	51.7 10.2
38.0 (+-)	8.7 1.2	4.3 0.6	37.5 5.3
39.0 (+-)	9.7 1.2	4.7 0.6	41.6 5.3
40.0 (+-)	11.5 1.7	5.6 0.8	49.3 7.1
41.0 (+-)	10.3 1.8	5.0 0.9	44.1 7.7
42.0 (+-)	11.2 1.7	5.5 0.7	48.1 5.8



43.0 (+-)	11.5 1.4	5.8 0.7	51.0 5.8
44.0 (+-)	10.4 1.5	5.1 0.7	44.7 6.5
45.0 (+-)	11.5 2.2	5.8 1.1	51.1 5.3
47.0 (+-)	11.5 1.5	5.6 0.5	49.4 8.2
48.0 (+-)	14.5 1.5	7.1 0.5	62.3 8.1
49.0 (+-)	12.5 1.5	6.1 0.7	53.5 6.3
NET. AVG.: (+-)	11.4 3.1	5.6 1.5	48.8 13.3

THE BACKGROUND- PATCH NUCLEAR PLANT ... 850108 - 850403 : 85 DAYS

TLD#	MF	MICRF/RF	MF/MI
4.0 (+-)	19.1 3.0	9.4 1.5	82.0 12.8
5.0 (+-)	16.1 1.7	7.9 0.8	69.3 7.3
6.0 (+-)	13.8 1.8	6.8 0.9	59.4 7.9
7.0 (+-)	13.8 1.6	6.8 0.8	59.4 6.7
8.0 (+-)	10.9 1.3	5.4 0.6	47.0 5.5
NET. AVC.:	14.8	7.2	63.4
(+-)	6.1	3.0	26.2

ARNAH RIVER PLANT/VOCULE ... 841220 - 850404 : 105 DAYS

TL1%	MF	MICRF/HF	MF/YF
25.0 (+-)	18.1 2.8	7.2 1.1	62.9 9.9
26.0 (+-)	15.9 2.4	6.3 0.9	55.2 8.2
27.0 (+-)	19.3 2.5	7.7 1.0	67.3 8.8
28.0 (+-)	14.6 3.0	5.8 1.2	50.7 10.3
29.0 (+-)	16.5 3.1	6.0 1.2	57.4 10.9
30.0 (+-)	16.3 2.6	6.5 1.0	56.8 9.0
31.0 (+-)	16.6 2.3	6.6 0.9	57.8 8.0
32.0 (+-)	14.2 1.9	5.6 0.8	49.4 6.7
33.0 (+-)	17.2 2.6	6.8 1.0	59.9 9.2
34.0 (+-)	13.3 2.2	5.3 0.9	46.3 7.5
35.0 (+-)	16.1 2.2	6.4 0.9	55.9 7.7
36.0 (+-)	17.1 2.1	6.8 0.8	59.4 7.3
37.0 (+-)	11.1 3.0	4.4 1.2	38.7 10.4
38.0 (+-)	16.3 2.7	6.5 1.1	56.6 9.4
40.0 (+-)	14.5 2.4	5.7 0.9	50.3 8.3
41.0 (+-)	15.2 4.0	6.0 1.6	52.9 13.8
42.0 (+-)	13.5 2.4	5.4 0.9	47.0 8.3
43.0 (+-)	14.9 2.0	5.9 0.8	51.7 7.1

(+-)	15.1	6.8	7.5
46.0	15.1	7.0	16.5
(+-)	2.4	1.0	0.4

NET. AVC.:	15.6	6.3	54.8
(+-)	4.0	1.6	13.8

TAMPAH RIVER PLANT/VOC/TLE ... 841115 - 850404 : 140 DAYS

TLL#	PF	MICR/LE	PR/YL
1.0	20.0	5.5	52.1
(+-)	2.2	0.7	5.8
2.0	23.5	7.1	62.3
(+-)	2.8	0.8	7.3
3.0	26.6	7.9	69.3
(+-)	3.7	1.1	9.5
4.0	30.5	9.1	79.5
(+-)	3.6	1.1	9.3
5.0	27.3	9.1	71.3
(+-)	2.9	0.9	7.6
6.0	24.4	7.2	63.5
(+-)	3.2	1.0	8.4
7.0	24.1	7.2	62.9
(+-)	2.7	0.8	6.9
8.0	18.2	5.4	47.3
(+-)	2.0	0.6	5.3
9.0	22.3	6.6	58.2
(+-)	2.5	0.7	6.4
10.0	20.9	6.2	54.4
(+-)	2.8	0.8	7.3
12.0	24.6	7.3	64.1
(+-)	2.7	0.8	7.1
13.0	18.9	5.6	49.3
(+-)	2.1	0.6	5.5
14.0	20.0	6.0	52.2
(+-)	2.3	0.7	6.0
15.0	27.1	8.1	70.8
(+-)	5.1	1.5	13.2
16.0	19.6	5.8	51.2
(+-)	2.6	0.8	6.7
17.0	26.6	7.9	69.3
(+-)	4.6	1.4	12.0
18.0	22.1	6.6	57.6
(+-)	2.6	0.8	6.8
19.0	22.7	6.7	59.1

20.0 (+-)	23.7 3.6	7.1 1.1	61.5 9.3
21.0 (+-)	20.6 2.1	6.1 0.6	53.8 5.6
22.0 (+-)	20.3 2.3	6.0 0.7	52.8 5.9
23.0 (+-)	30.4 4.0	9.1 1.2	79.4 10.5
24.0 (+-)	22.5 2.4	6.7 0.7	58.8 6.3

MEI. AVC.:	23.4	7.0	60.9
(+-)	6.9	2.1	18.1

ANNAH RIVER PLANT ... 840905 - 850404 : 211 DAYS

TIME	PER	TIME/PER	PER/YR
11.0	30.6	6.0	53.0
(+-)	2.9	0.6	5.1

THE LRG PCF EFF/VOCTIL ... 841115 - 850404 : 140 DAYS

ALL#	IF	ICRF/IF	PF/YR
1.0	35.3	10.5	92.0
(+-)	4.6	1.4	12.0
2.0	19.5	5.9	51.8
(+-)	2.1	0.6	5.6
3.0	25.6	7.6	66.9
(+-)	2.7	0.8	7.1
REF. AVG.:	26.5	8.0	70.2
(+-)	15.6	4.6	40.6



TECH RESEARCH REACTOR ... 840319 - 850318 : 364 DAYS

ILD#	MR	MICRR/HR	MR/YR
6.0	91.7	10.5	92.0
(+-)	10.1	1.2	10.1
8.0	94.0	10.8	94.3
(+-)	9.2	1.0	9.2
9.0	994.5	113.8	997.3
(+-)	96.8	11.1	97.0
12.0	90.0	10.3	90.2
(+-)	8.4	1.0	8.4
NET. AVG.:	317.6	36.4	318.4
(+-)	902.7	103.3	905.1

QUOYAH NUCLEAR PLANT ... 840907 - 850227 : 173 DAYS

TLD#	MR	MICRR/HR	MR/YR
1.0 (+-)	25.4 2.6	6.1 0.6	53.6 5.5
2.0 (+-)	24.8 2.9	6.0 0.7	52.4 6.2
3.0 (+-)	25.5 2.8	6.1 0.7	53.8 6.0
4.0 (+-)	31.0 3.3	7.5 0.8	65.5 6.9
5.0 (+-)	24.7 3.1	6.0 0.7	52.1 6.5
6.0 (+-)	23.2 4.4	5.6 1.1	49.0 9.4
7.0 (+-)	28.7 4.0	6.9 1.0	60.5 8.4
8.0 (+-)	32.3 3.5	7.8 0.8	68.1 7.3
9.0 (+-)	32.7 3.9	7.9 0.9	68.9 8.3
10.0 (+-)	35.4 3.9	8.5 0.9	74.7 8.3
11.0 (+-)	32.8 4.0	7.9 1.0	69.2 8.5
NET. AVG.: (+-)	28.8 8.4	6.9 2.0	60.7 17.8

ATE BACKGROUND- SEQUOYAH ... 840907 - 850227 : 173 DAYS

TLD#	MR	MICRR/HR	MR/YR
13.0	21.9	5.3	46.2
(+-)	2.5	0.6	5.2
14.0	48.5	11.7	102.4
(+-)	5.1	1.2	10.7
15.0	37.5	9.0	79.2
(+-)	4.0	1.0	8.4
16.0	24.4	5.9	51.6
(+-)	2.7	0.7	5.8
NET. AVG.:	33.1	8.0	69.8
(+-)	24.7	6.0	52.2



GEORGIA INSTITUTE OF TECHNOLOGY  
OFFICE OF INTERDISCIPLINARY PROGRAMS  
205 OLD CIVIL ENGINEERING BUILDING  
ATLANTA, GEORGIA 30332

ENVIRONMENTAL RESOURCES CENTER  
(404) 894-2375

BIOENGINEERING CENTER  
(404) 894-2375

DATE: June 14, 1985

TO: James Hardeman, Program Manager  
Environmental Radiation Program  
Environmental Protection Division, DNR

FROM: Bernd Kahn, Director  
Environmental Resources Center

SUBJECT: Monthly Report of Activities for the State by the  
Environmental Radiation Laboratory, May, 1985

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The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental radionuclide monitoring at nuclear facilities by DNR staff	Table 1-10
Other samples collected by DHR staff	Table 11
Monitoring by DNR staff of community water systems	Table 12

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity that may be attributed to the facility:

Tables 8, 9, and 10--H-3 in milk, grass, and surface water at the Savannah River Plant.

All other radionuclides in Tables 1-10 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables.

The soil samples collected at the site of a laundry contained elevated Co-60, Cs-134, and Cs-137 levels. (see Table 11).

Radioactivity results for community water supplies, compiled in Table 12, include partial data for samples WS4167-4310 and WS4553-4760. Samples in series WS 4227-4310 that were delayed to await additional aliquots are now being processed.

No elevated radium concentrations ( $>5$  pCi/l) were measured. High uranium concentrations ( $>15$  pCi/l) were found in the following:

WS 4273	Scenic Shores SD
WS 4277	Spring valley SD
WS 4567	Tugaloo Bay

No TLD's were submitted for measurement during the month.

The types of samples and number of each that were analyzed are summarized in the following two tables.

Number of Samples Analyzed in Month

	water	air filter	air cartridge	milk	grass, veg.	soil, sediment	animals	smears	TLD	TOTAL
gross alpha	88	6								94
gross beta	26	10								36
gamma spectra	23	10	10	6	23	32				104
H-3	12			6	6					24
Sr-89/90	8									8
I-131	12			6						18
Ra-226	11									11
Ra-228	16									16
U	12									12
Pu										
dose									26	26
other										
Total	208	26	10	18	29	32			26	349

Sample Types Analyzed in Month

<u>Sample Types</u>	<u>Analyzed in Month</u>
Community water supplies	88
Nuclear facilities	226
DHR surveys	5
Quality control - EPA	30
Total	<u>349</u>

Table 1

Radioactivity Levels in Quarterly Composite Air Filters  
From the Environment of the Hatch Nuclear plant

<u>Samples No.</u>	<u>Location</u>	<u>Dates, 1985</u>	<u>Volume, m<sup>3</sup></u>	<u>Cs-137 concentration, fCi/m3</u>
B 1251	Substation	Jan-Mar.	7349	< 0.1
B 1252	Plant Hatch	Jan-Mar.	2416	< 0.1
B 1253	Dead River Rd.	Jan-Mar.	2789	< 0.1

- 
- Notes: 1. Three filters collected successively at the same location were analyzed by gamma-ray spectrometry. See earlier reports for gross beta activity in individual filters and collection dates.
2. No other photon-emitting radionuclides were detected except naturally occurring Be-7.



Table 2

Radioactivity Levels in Water Samples from  
The Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
*B 1264	Altamaha R., # 170	< 2	2 $\pm$ 1	< 200	< 0.5
*B 1265	Altamaha R., # 172	2 $\pm$ 1	4 $\pm$ 2	< 200	< 0.6

- 
- Notes:
1. Samples were collected April 23-May 21, 1985, by Georgia Power Co. staff.
  2. I-131 was calculated as of the final day of the collection period.
  3. No man-made photon-emitting radionuclides were detected in these samples (Cs-137 <20 pCi/l).

Table 3

Radioactivity Levels in Milk Samples from  
the Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
*B 1266	Williamson	< 10	1.6	< 200	< 0.6
*B 1267	Johnson	< 6	1.7	< 200	< 1
*B 1268	GSP	< 10	1.3	< 200	< 0.9

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Notes: 1. Samples were collected on May 20, 1985, by Georgia Power  
Co. staff.  
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 4

Radioactivity Levels in Grass Sample from the  
Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt./ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>	
			<u>Cs-137</u>	<u>Be-7</u>
* B 1269	#5	0.27	110	600

- 
- Notes: 1. Sample was collected on May 13, 1985, by Georgia Power Co. staff.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 5

Radioactivity Levels in Quarterly Composite Air Filter  
from the Environment in Georgia of the Farley Nuclear Plant

<u>Samples</u> <u>No.</u>	<u>Location</u>	<u>Dates,</u> <u>1985</u>	<u>Volume,</u> <u>m3</u>	<u>Cs-137 concentration, fCi/m3</u>
F 885	Great Southern Paper Co.	Jan-Mar	8623	< 0.1

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- Notes:
1. Three filters collected successively at the same location were analyzed by gamma-ray spectrometry. See earlier reports for gross beta activity in individual filters and collection dates.
  2. No other photon-emitting radionuclides were detected except naturally occurring Be-7.

Table 6

Radioactivity Levels in Water Sample from  
The Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F 887	Great Southern Paper Co.	< 2	2 $\pm$ 2	<400	< 1

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- Notes:
1. Sample was collected March 21-April 30, 1985.
  2. I-131 was calculated as of the final day of the collection period.
  3. No man-made photon-emitting radionuclides were detected. (Cs-137 <20 pCi/l).

Table 7

Radioactivity Levels in Quarterly Composite Air Filters  
from the Environment in Georgia of the Savannah River Plant

<u>Samples No.</u>	<u>Location</u>	<u>Dates, 1985</u>	<u>Volume, m3</u>	<u>Cs-137 concentration, fCi/m<sup>3</sup></u>
SR 1984	Ga. Welcome Sta.	Jan-Mar.	4778	< 0.1
SR 1985	Girard	Jan-Feb.	4510	< 0.1
SR 1986	Hargrove Rd.	Jan.	1494	< 0.2
SR 1987	GPC	Jan.	2412	< 0.1
SR 1988	Waynesboro	Jan-Mar.	2698	< 0.1
SR 1989	Augusta	Jan-Mar.	6061	< 0.1

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- Notes: 1. Three filters collected successively at the same location were analyzed by gamma-ray spectrometry. See earlier reports for gross beta activity in individual filters and collection dates. Only one filter was submitted for Sr 1986-1987 and only two filters were submitted for SR 1985.
2. No other photon-emitting radionuclides were detected except naturally occurring Be-7.

Table 8

Radioactivity Levels in Water Samples from  
the Environment in Georgia of the Savannah River Plant

Sample No.	Location	Gross alpha, pCi/l	Gross beta, pCi/l	H-3, pCi/l	I-131, pCi/l
SR 2004	Savannah R., Hwy 301	-----	-----	-----	< 5
SR 2016	I & D Water Supply Port Wentworth	< 2	2 $\pm$ 2	3,000 $\pm$ 400	<0.4
SR 2020	Savannah R., R-2	< 2	2 $\pm$ 2	500 $\pm$ 400	<0.7
SR 2021	Savannah R., R-3B	< 2	3 $\pm$ 2	800 $\pm$ 400	<0.8
SR 2022	Savannah R., R-10	< 2	2 $\pm$ 2	3,200 $\pm$ 400	< 1
SR 2023	RM-146.7	6 $\pm$ 3	12 $\pm$ 3	2,400 $\pm$ 300	----
SR 2024	RM 150.4	< 2	2 $\pm$ 2	700 $\pm$ 200	----
SR 2025	RM 151.2	8 $\pm$ 4	10 $\pm$ 4	700 $\pm$ 200	----
SR 2026	N. Augusta raw composite	< 2	5 $\pm$ 2	<200	----
SR 2027	Port Wentworth, raw composite	< 2	5 $\pm$ 2	3,400 $\pm$ 300	----

- Notes:
1. Other results for SR 2004 were reported in Table 13 of the April monthly report.
  2. Sample SR 2016 was collected May 7-14, 1985; samples SR-2020-2022 were collected on May 14, 1985, by Savannah River Plant staff; samples SR 2023-2027 were collected on May 14, 1985, by Georgia Power Co. staff.
  3. I-131 was calculated as of final day of collection period.
  4. Samples SR 2023 and 2025 will be filtered and recounted for gross alpha and beta activity.
  5. No man-made photon-emitting radionuclides were detected in these samples (Cs-137 <20 pCi/l).

Table 9

Radioactivity Levels in Milk Samples from  
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 2017	Gracewood	< 10	1.5	1,400+400	< 0.6
SR 2018	Girard	< 6	1.7	1,100+400	< 0.7
SR 2019	Waynesboro	< 10	1.5	600+400	< 1

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- Noes: 1. Samples were collected on May 16, 1985, by Savannah River Plant staff.  
2. No other radionuclides were detected (Ba-140 <20 pCi/l).



Table 10

Radioactivity Levels in Grass Samples from the  
Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>H-3, pCi/l</u>	<u>Radionuclide concentration, pCi/kg</u>	
				<u>Cs-137</u>	<u>Be-7</u>
SR 2028	Waynesboro	0.46	1,000+200	110	4,200
SR 2029	Simulator	0.29	1,700+200	360	2,800

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- Notes: 1. Samples were collected on May 21, 1985, by Georgia Power Co. staff.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 11

Radioactivity Levels in Soil Samples from  
the Environment of Southern Space Laundry, Macon

<u>Sample No.</u>	<u>Location No.</u>	<u>Radionuclide concentration, pCi/kg</u>		
		<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>
S 2468	1	1,500	220	1,700
S 2469	2/52	1,400	200	2,500
S 2470	13/14	180	<40	300
S 2471	10	770	<40	110
S 2472	14	4,300	340	2,000

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- Notes: 1. Samples were collected by DHR staff on May 8, 1985.  
2. No other man-made photon-emitting radionuclides were detected.  
The concentrations are relative to moist weight.

Table 12

RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8408.... AUGUST, 1985 INCOMPLETE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
2327	4167 PINE FOREST SD	CHATHAM	7-17-84	8408	1.000	< 2			
2390	4168 PINWOOD MHP	CHATHAM	7-17-84	8408	1.000	< 2			
2150	4169 ESTILL HAMMOCK	CHATHAM	7-19-84	8408	1.000	< 2			
6617	4170 BUFORD	WINNETT	7-25-84	8408	1.000	< 1			
4425	4171 BRIAR PATCH MHP	SUMTER	7-30-84	8408	1.000	< 1			
0389	4172 BIG CANOE	PICKENS	7-24-84	8408	4.003	1 + 1			
4225	4173 CLARKSTON	DEKALB	7-24-84	8408	1.000	< 1			
9952	4174 OAK ACRES WATER ASSN	GLYNN	7-31-84	8408	1.000	< 4			
1697	4175 TEMPLE	CARROLL	7-26-84	8408	1.000	< 2			
6007	4176 PALMETTO	FULTON	7-24-84	8408	1.000	< 2			
2565	4177 GLENN OF ROBIN HOOD	CHATHAM	7-25-84	8408	1.001	< 2			
4439	4178 CARVER SD	DOUGHERTY	7-25-84	8408	1.001	< 3			
0984	4179 CAPE HAROWICH	BRYAN	6-29-84	8408	1.000	< 2			
1665	4180 TWIN ACRES SD	THOMAS	7-17-84	8408	1.001	< 3			
0753	4181 TOWN & COUNTRY EST	THOMAS	5 -7-84	8408	1.001	6 + 2	2.0	< 1.0	
3112	4182 RIVERDALE	CLAYTON	7-24-84	8408	1.000	< 2			
4652	4183 WARNOCK'S TP	LAURENS	7-25-84	8408	1.000	< 3			
2442	4184 TALAH LAKES ESTATES	CHATHAM	7-17-84	8408	1.000	< 3			
3743	4185 ADEL	COOK	7-26-84	8408	1.000	< 4			
6586	4186 WHITE PLAINS	GREENE	8 -2-84	8408	4.003	8 + 2	1.5	1.3	
0000	4187 COWETA CO		5-14-84	8408	0.000	1 + 1			
1310	4188 SOUTH HAMPTON MHP	SPALDING	12-29-83	8408	5.000	3 + 1			
1063	4189 ELLAVILLE	SCHLEY	10-27-82	8408	0.003	4 + 1	1.1		
6874	4190 SUNDOWN SD	FORSYTH	10-29-81	8408	0.005	3 + 1			
6809	4191 MT AIRY	HABERSHAM	5-18-82	8408	0.004	< 1			
7621	4192 HODGESVILLE MHP	EFFINGHAM	10-13-81	8408	6.000	< 2			
8618	4193 DAVIS MHP	MONROE	12 -8-84	8408	3.000	62 + 4	3.8	1.5	66 + 5
8618	4194 DAVIS MHP	MONROE	2-10-83	8408	3.000	41 + 4	3.8	< 1.0	41 + 3
6293	4195 NEW HOPE PLANTATION	GLYNN	10 -1-82	8408	1.002	2 + 2			
3183	4196 MISSION TRACE SD	CAMDEN	4-15-81	8408	6.000	< 3			
0466	4197 ALAPAHA	BERRIEN	2-22-82	8408	3.000	5 + 2	7.6	1.2	
2954	4198 SHADY ACRES MHP	CHATHAM	8-12-81	8408	1.000	< 3			
5599	4199 SWEETBRIAR MHP	COWETA	6-17-82	8408	0.000	< 2			
0292	4200 BARTOW CO	BARTOW	7-13-82	8408	0.000	2 + 1			
7471	4201 BOATRIGHS TP	LONG	12-14-82	8408	1.000	< 3			
1262	4202 BENNETT'S MHP#2	BERRIEN	1-29-82	8408	0.000	2 + 1			
3275	4203 EAST DUBLIN	LAURENS	10 -7-82	8408	5.003	< 3			
5148	4204 PINE GROVE MHP	WAYNE	8 -5-82	8408	0.000	< 3			
1276	4205 B&B WATER WORKS	BRYAN	12-14-81	8408	0.000	< 2			
1160	4206 CLARKS MHP	BULLOCH	12 -1-82	8408	0.000	< 2			
548	4207 WINDWARD ACRES	GLYNN	10-19-81	8408	0.000	< 3			
576	4208 GREENVILLE	MERTWEATHER	11-30-81	8408	0.000	8 + 2	0.4	1.5	
0024	4209 PINE FOREST SD	PUTNAM	1 -7-82	8408	6.003	5 + 2	0.4		
543	4210 EULONIA COMMUNITY	MCINTOSH	8-14-84	8408	4.001	< 3			
036	4211 MARLETTE HEIGHTS	HALL	8 -8-84	8408	4.000	< 2			
917	4212 TOLBERT MHP	JACKSON	8-14-84	8408	4.003	3 + 1			
149	4213 REED POULTRY	LINCOLN	8 -9-84	8408	4.001	< 1			
338	4214 INDIAN HILLS ESTATES	GREENE	7-23-84	8408	4.001	11 + 2	0.5	1.3	
477	4215 PINWOOD VILLAGE	HOUSTON	8 -8-84	8408	1.000	2 + 1			
777	4216 RINCON	EFFINGHAM	8 -8-84	8408	1.002	< 2			

TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
 COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
4297	4217 MOBILE WORLD	BIBB	8-15-84	8408	1.000	2 + 1			
0993	4218 LAKE LARRAINE	BRYAN	8 -7-84	8408	1.000	< 2			
2283	4219 SOPERTON	TREUTLEN	8-10-84	8408	1.000	2 + 2			
3920	4220 HAWAIIAN VILLAGE MHP	BIBB	8-15-84	8408	1.000	2 + 2			
7528	4221 CENTERVILLE	HOUSTON	8-15-84	8408	1.002	< 1			
6162	4222 MITCHELL	GLASCOCK	8 -9-84	8408	1.000	< 1			
7114	4223 VILLAGE MHP	APPLING	8 -7-84	8408	1.000	2 + 2			
2024	4224 PINE FOREST SD	PUTNAM	7-26-84	8408	1.000	2 + 1			
4155	4225 BIG M TP	DOUGHERTY	7-25-84	8408	1.001	< 2			
0658	4226 SHELTERING PINES MHP	BIBB	8 -3-84	8408	1.001	< 2			
4003	4227 MORGAN MHP	CHATHAM	8 -2-84	8408	1.000	< 2			
1560	4228 MACON HEALTH CARE	BIBB	7-31-84	8408	1.001	1 + 1			
4288	4229 CALLE VINAS SD	BIBB	7-31-84	8408	1.001	< 1			
5778	4230 COMMODORE POINT	CHATHAM	8 -8-84	8408	1.000	< 2			
1984	4231 GARDNER ESTATES	BRYAN	8-15-84	8408	1.000	< 2			
7247	4232 OAK HILL ESTATES	LIBERTY	8-16-84	8408	4.000	< 2			
5886	4233 LAURENS WATER CO INC	LAURENS	8 -8-84	8408	1.000	< 2			
1776	4234 TWIN OAKS MHP	CARROLL	8-24-84	8408	1.000	1 + 1			
1537	4235 BUCK CREEK ACRES MHP	SCREVEN	8 -1-84	8408	1.000	< 1			
0667	4236 BURCH GARDENS MHP	BIBB	8 -3-84	8408	1.000	< 2			
8251	4237 BLACK CREEK FARMS W	BRYAN	8-15-84	8408	1.000	< 2			
2196	4238 GRAYS SD	CHATHAM	8-15-84	8408	1.000	< 2			
2035	4239 GROVE HILL SD	CHATHAM	8 -2-84	8408	1.000	2 + 2			
2112	4240 MATHEWS MHP	CHATHAM	8 -7-84	8408	1.000	< 3			
9533	4241 SAFELO GARDENS SD	MCINTOSH	8-14-84	8408	1.000	< 3			
0729	4242 AUGUSTA	RICHMOND	8-10-84	8408	1.000	< 2			
0993	4243 MILSTEAD	ROCKDALE	8-10-84	8408	1.000	< 2			
0601	4244 BRINSON'S TP	SCREVEN	8 -1-84	8408	1.000	< 3			
0123	4245 PORTERDALE-BIBB MFG	NEWTON	8-10-84	8408	1.000	< 2			
3693	4246 YOUNGS ISLAND	MCINTOSH	8-14-84	8408	1.000	< 2			
3629	4247 IRWINTON	WILKINSON	7-29-83	8408	2.000	4 + 1			
3848	4248 FOXBOW FARMS NORTH	EFFINGHAM	3-27-84	8408	5.001	< 2			
1399	4249 SHOREWOOD ESTATES SD	STEPHENS	9-28-83	8408	5.000	16 + 3			9 + 1
0475	4250 ENIGMA	BERRIEN	3-26-84	8408	2.002	3 + 2			
1063	4251 STATESBORO	BULLOCH	11-16-82	8408	5.007	< 3			
3120	4252 AVONDALE MHP	BIBB	2-20-84	8408	5.002	3 + 1			
1075	4253 SAVANNAH	CHATHAM	8-25-81	8408	2.026	< 3			
1124	4254 DAWSONVILLE	DAWSON	12 -8-83	8408	5.002	4 + 2			
1765	4255 RICHMOND CO	RICHMOND	12-19-83	8408	5.105	< 2			
292	4256 NEWARK WATER SYS	THOMAS	1-19-84	8408	5.001	< 2			
216	4257 DIX-LEE-ON ESTATES	FAYETTE	12-29-83	8408	5.006	< 2			
776	4258 CANON	FRANKLIN	3 -5-84	8408	5.002	< 2			
256	4259 SUMTER CO CI	SUMTER	1 -6-84	8408	5.002	< 2			
104	4260 GRAY	JONES	3-13-84	8408	2.006	4 + 2			
134	4261 BOWERSVILLE	HART	1 -9-84	8408	5.001	2 + 2			
124	4262 DAWSONVILLE	DAWSON	3-10-83	8408	5.000	2 + 1			
392	4263 GLENDALE SD	LEE	1-10-84	8408	5.001	< 3			
545	4264 LADY WATER CO	FORSYTH	8 -5-83	8408	5.000	1 + 1			
277	4265 CARLISLE SD	SPALDING	12-29-83	8408	5.000	< 2			
336	4266 OAK RIDGE TP	TIFT	12 -6-83	8408	5.001	83 + 6			< 2

TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
 COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

SAMPLE WS #	LOCATION	COUNTY	COLLECT LAB		TYPE/. WELL	GROSS ALPHA PCI/L	RA- RA-		URANIUM PCI/L
			DATE	DATE			226 PCI/L	228 PCI/L	
23368	4267 COUNTRY CLUB HILLS	BULLOCH	1 -4-84	8408	5.001	< 3			
23482	4268 ALOOYV SHORES	JASPER	3-31-83	8408	2.000	9 + 2			
23106	4269 WOODLAND VALLEY SD	HANCOCK	3-29-83	8408	5.000	4 + 2			
10361	4270 PICKENS CO WATER AU	PICKENS	3-15-84	8408	5.001	7 + 2			
23649	4271 GROVETOWN	COLUMBIA	11 -9-82	8408	5.015	2 + 1			
25278	4272 LAKE TARA MHP	APPLING	3-28-84	8408	5.001	< 3			
25014	4273 SCENIC SHORES SD	HANCOCK	3-22-84	8408	5.002	24 + 6			16 + 1
25185	4274 CEDAR LAKE ESTATES	CRISP	8 -9-83	8408	5.001	< 2			
26760	4275 RIVERWOOD SD	THOMAS	3-22-84	8408	5.001	3 + 2			
28223	4276 LAKELAND	LANIER	12-15-83	8408	5.002	2 + 2			
24953	4277 SPRING VALLEY SD	NEWTON	3-16-84	8408	5.000	131 + 8			73 + 6
26095	4278 OGDEN TP #2	LIBERTY	6 -2-83	8408	5.002	2 + 1			
23801	4279 HOUSTON VALLEY	CATOOSA	1 -9-84	8408	5.000	< 3			
25820	4280 JUBILEE PARTNERS	MADISON	3 -8-84	8408	5.001	10 + 2			
28540	4281 FERNWOOD MHP	FAYETTE	12-29-83	8408	5.001	< 2			
28814	4282 CHEROKEE CO WS	CHEROKEE	11-21-83	8408	5.000	< 2			
28104	4283 GRAY	JONES	3-13-84	8408	2.002	< 2			
22275	4284 OGEECHEE FARMS SD	CHATHAM	1-31-84	8408	5.002	< 2			
28104	4285 GRAY	JONES	3-13-84	8408	2.005	< 3			
28104	4286 GRAY	JONES	3-13-84	8408	2.004	10 + 2			
23329	4287 MEADOW ROCK SD	CRISP	11 -8-83	8408	5.002	< 2			
26018	4288 OMAR HEIGHTS SD	CRISP	11 -8-83	8408	5.001	< 3			
20765	4289 RICHMOND CO WS	RICHMOND	12-19-83	8408	5.106	< 2			
24957	4290 GARFIELD	EMANUEL	11 -3-83	8408	5.002	< 3			
2532	4291 HARRIS CO WS	HARRIS	1-27-84	8408	5.000	< 1			
24400	4292 KINGS HARBOR SD	FORSYTH	9-13-83	8408	5.000	< 2			
24124	4293 DAWSONVILLE	DAWSON	12 -8-83	8408	5.001	7 + 3			
29859	4294 TARRYTOWN	MONTGOMERY	11-16-83	8408	5.002	< 3			
27951	4295 LOUISVILLE	JEFFERSON	1-16-84	8408	5.006	< 1			
28963	4296 FOXBOROUGH SD	LOWNDES	3-26-84	8408	5.002	< 3			
26092	4297 OGDEN MHP	LIBERTY	6 -2-83	8408	5.001	< 3			
25014	4298 SCENIC SHORES SD	HANCOCK	3-22-84	8408	5.004	< 4			
26848	4299 LOOP 81 MHP	NEWTON	3-16-84	8408	2.000	2 + 2			
24993	4300 SWAINSBORO	EMANUEL	2 -2-84	8408	5.009	< 2			
26026	4301 ASHURST ESTATES SD	LOWNDES	3-15-84	8408	2.001	< 3			
26254	4302 HIDDEN VILLAGE SD	LOWNDES	3 -6-84	8408	2.001	< 2			
26014	4303 SCENIC SHORES SD	HANCOCK	3-22-84	8408	5.005	3 + 2			
27058	4304 SHADY GROVE TP	HALL	11 -7-83	8408	5.003	< 1			
28879	4305 COUNTRY ACRES MHP	NEWTON	11-30-83	8408	5.000	2 + 2			
26820	4306 JUBILEE PARTNERS	MADISON	3 -8-84	8408	5.002	< 2			
26194	4307 DOGWOOD HILLS SD	CRISP	11 -8-83	8408	5.001	< 3			
28104	4308 GRAY	JONES	3-13-84	8408	2.001	6 + 2			
26656	4309 TOOMSBORO	WILKINSON	8-31-83	8408	5.003	4 + 2			
26436	4310 SKYLAKE WATER SYS	WHITE	12-30-83	8408	5.004	2 + 2			

TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
 COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
27862	4553 ANNEEWAKEE N.SYST. 2	POLK	1 -3-85	8501	4.002	7 + 2	0.9	2.5	
11524	4554 PLAINS, CITY OF	SUMTER	1 -4-84	8501	4.006	8 + 2	2.5	1.7	
27871	4555 ANNEEWAKEE N.SYST. 2	POLK	1 -3-85	8501	4.001	< 1			
11524	4556 PLAINS, CITY OF	SUMTER	1 -4-85	8501	4.005	3 + 1			
26238	4557 HIDDEN ACRES S/D	THOMAS	1 -8-85	8501	4.000	< 1			
43325	4558 ROBINS AFB	HOUSTON	12-14-84	8501	1.000	3 + 1			
17241	4559 ROSE CITY MHP	THOMAS	12-12-84	8501	3.000	3 + 1			
14616	4560 WOODLAND TRAILS MHP	LAURENS	1 -3-85	8501	1.000	2 + 2			
00466	4561 ALAPAHA, CITY OF	BERRIEN	12-19-84	8501	3.000	25 + 3	7.8	< 1.0	< 2
13887	4562 THUNDERNG SPRING INC	LAURENS	12-18-84	8501	1.000	< 2			
08223	4563 LAKELAND, CITY OF	LANIER	12-19-84	8501	1.000	4 + 1	1.8		
08433	4564 TARPLEY'S MHP	LAURENS	12-18-84	8501	1.000	< 1			
09721	4565 PELHAM, CITY OF	MITCHELL	12-19-84	8501	1.000	2 + 1			
25105	4566 CONGER MHP	WORTH	12-11-84	8501	1.000	2 + 1			
07341	4567 TUGALOO BAY	HART	12-21-84	8501	3.000	18 + 3	1.8	< 1.0	16 + 1
26132	4568 DAIRY TRACT	JEFFERSON	12-20-84	8501	1.000	< 2			
17279	4569 SCHROER ESTATES	LOWNDES	12-17-84	8501	1.000	< 2			
16495	4570 BRITTANY HARBOR SOU.	FRANKLIN	12-21-84	8501	3.000	61 + 7		< 1.0	
00475	4571 ENIGMA, CITY OF	BERRIEN	12-19-84	8501	3.000	7 + 1		< 1.0	
#####	4572 WHITE WATER CREEK		1-17-85	8501	4.001	43 + 4	5.5	1.4	43 + 3
14967	4573 PINE CIRCLE T/P	LOWNDES	1-15-85	8501	4.002	< 2			
59812	4574 KINGS GAP UTILITYS	HARRIS	1-14-85	8501	4.000	< 1			
#####	4575 QUEENSLAND COMM		1-15-85	8501	4.001	3 + 1			
177	4576 EL DORADO WATER SUPP	TIFT	1-16-85	8501	4.000	2 + 1			
100	4577 TIFTON IND. PARK	TIFT	1-16-85	8501	4.004	20 + 3	4.0	< 4.0	< 2
2155	4578 TIFTON IND. PARK	TIFT	1-16-85	8501	4.005	79 + 5	11.6	< 1.0	2 + 1
8476	4579 SMITHVILLE, CITY OF	LEE	1-17-85	8501	1.000	< 1			
5783	4580 WINDING WAY EST.	QUITMAN	1-22-85	8501	1.000	< 1			
2605	4581 SIZLAND T/P	IRWIN	1-16-85	8501	1.000	< 1			
4251	4582 CAMPBELL WATER SYST	DOUGHERTY	1 -7-85	8501	1.000	< 1			
5004	4583 FOXCROFT S/D	THOMAS	1 -4-85	8501	1.001	2 + 2			
6224	4584 LEE VILLA S/D	LEE	1-22-85	8501	1.000	< 1			
7065	4585 FOREST ESTATES S/D	IRWIN	1-16-85	8501	1.000	< 2			

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## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8502.... FEBRUARY, 1985 INCOMPLETE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
00800	4586 ALLATOONA MHP	BARTON	1-29-85	8502	4.004	3 + 1			
37607	4587 TROUP CREEK MARINA	GLYNN	1-23-85	8502	4.000	2 + 1			
34953	4588 SPRING VALLEY SD	NEWTON	1-25-85	8502	4.000	216 + 8	18.7	< 1.0	174 + 14
00800	4589 ALLATOONA MHP	BARTON	1-29-85	8502	4.003	5 + 1	1.0		
11063	4590 ELLAVILLE, CITY OF	SCHLEY	1-24-85	8502	4.005	2 + 1			
37653	4591 WILDWOOD ESTATES	WALTON	1-25-85	8502	4.000	4 + 1	0.8		
06869	4592 RED BARN MHP	DECATUR	1-28-85	8502	1.000	3 + 1			
08555	4593 PLANTATION MHP	LEE	1-23-85	8502	1.000	< 1			
08909	4594 BAILEY'S MHP	LOWNDES	1-24-85	8502	1.000	2 + 1			
21801	4595 FLINTWOOD SD	DECATUR	1-28-85	8502	1.000	< 1			
32428	4596 QUAIL RIDGE NO. SD	FORSYTH	1-21-85	8502	1.000	< 1			
07058	4597 SHADY GROVE TP	HALL	1-30-85	8502	1.000	2 + 1			
22955	4598 WATSON TP	TURNER	1-23-85	8502	1.000	1 + 1			
14454	4599 BROWN'S WS	TURNER	1-23-85	8502	1.000	2 + 1			
33236	4600 DIXIE MHP	HALL	1-30-85	8502	1.000	3 + 1			
27935	4601 PARADISE MHP	LOWNDES	2 -1-85	8502	4.001	4 + 2	1.4		
27899	4602 THE BLUFF-BELLE ISLE	BRYAN	1 -7-85	8502	4.001	< 2			
26664	4603 DERRICK SD	CHATHAM	1-29-85	8502	4.000	< 2			
05797	4604 COOK'S MHP	CARROLL	1 -5-85	8502	4.002	< 2			
12736	4605 PARDEE'S MHP	JACKSON	1-30-85	8502	4.003	6 + 2	0.2	< 1.0	
12736	4606 PARDEE'S MHP	JACKSON	2 -1-85	8502	4.004	6 + 2		< 1.0	
07094	4607 MILLIKEN & CO.	HALL	1-31-85	8502	1.000	< 2			
07-85	4608 MILLIKEN & CO.	HALL	1-31-85	8502	1.000	< 2			
37849	4609 HALL CO. CORR. INST.	HALL	1-31-85	8502	1.000	2 + 1			
08494	4610 BIG OAK SD	LEE	2 -4-85	8502	1.000	< 2			
15148	4611 PAC YFA MHP	LEE	2 -4-85	8502	1.000	< 1			
09444	4612 BROWN BROS. FARM SD	MADISON	2 -6-85	8502	4.006	3 + 1			
16000	4613 THE OAKS NURSE HOME	MACON	2 -5-85	8502	4.002	3 + 1			
14297	4614 MOBILEWORLD-FOREST	ETEB	2 -7-85	8502	4.007	< 2			
14488	4615 ARCADE MHP	JACKSON	2 -7-85	8502	1.000	< 2			
13030	4616 JACKSON CO. CI	JACKSON	0 0-85	8502	1.000	3 + 1			
14586	4617 CROOKED CREEK VILL.	JACKSON	0 0-85	8502	1.000	5 + 1			
4941	4618 CHAMBER'S MHP	LEE	2 -5-85	8502	1.000	< 2			
17750	4619 BAR W MHP	TIFT	2 -5-85	8502	1.000	< 2			
17814	4620 NICHOLSON WA	JACKSON	2 -7-85	8502	1.000	3 + 1			
3012	4621 THE POTTER'S HOUSE	JACKSON	2 -7-85	8502	1.000	4 + 1			
6501	4622 BRITTANY HARBOR WEST	FRANKLIN	12-21-84	8502	3.000	35 + 3			
7828	4623 PINE HAVEN MHP	JACKSON	2 -5-85	8502	1.000	14 + 2			
7799	4624 HOSCHTON, CITY OF	JACKSON	2 -4-85	8502	1.000	< 2			
7743	4625 PINE HILL MHP	COOK	2-11-85	8502	3.000	131 + 6			
4167	4626 BAINBRIDGE, CITY OF	DECATUR	2-11-85	8502	1.000	< 2			
5292	4627 NEWARK W.S.	COLUMBIA	2 -7-85	8502	1.000	< 2			
2146	4628 BOWEN-WRIGHT SD	TIFT	2 -5-85	8502	1.000	< 2			
3705	4629 SYLVESTER, CITY OF	WORTH	1-31-85	8502	1.002	< 2			
1699	4630 SUMNER, CITY OF	FRANKLIN	2 -5-85	8502	1.001	10 + 2			
1439	4631 LUMPKIN, CITY OF	STEWART	1-31-85	8502	1.000	2 + 1			
1484	4632 COLONY MHP	JACKSON	2 -5-85	8502	1.000	2 + 1			
3009	4633 MINEOLA MHP	LOWNDES	2 -7-85	8502	1.001	< 2			
1839	4634 BROMWOOD, CITY OF	TERRELL	1-31-85	8502	1.000	< 2			
1742	4635 BRAINTWOOD NORTH SD	LEE	2 -4-85	8502	1.000	2 + 1			

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RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8502.... FEBRUARY, 1985 INCOMPLETE

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
08893	4636 ACADEMY ACRES SD	LOWNDES	2-14-85	8502	1.001	3 + 1			
#####	4637 WHITEWATER CREEK DEV		2 -7-85	8502	4.002	62 + 4	0.8	< 1.0	85 + 7
06549	4638 BALD RIDGE ON LANIER	FORSYTH	2 -6-85	8502	1.000	< 1			
11457	4639 RICHLAND, CITY OF	STEWART	2-14-85	8502	1.000	< 1			

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SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
08546	4640 PINEVIEW MHP	LEE	2-15-85	8503	1.000	< 2			
20028	4641 LOCKWIN S/D	LOWNDES	2-20-85	8503	1.001	5 + 1			
21936	4642 OAK RIDGE MHP	TIFT	2-21-85	8503	1.000	594 + 18			
26405	4643 DECATUR CO CORR INST	DECATUR	2-19-85	8503	1.001	< 1			
22049	4644 CHATTAHOOCHEE PLANT.	QUITMAN	2-21-85	8503	1.000	< 2			
09673	4645 WORTH CORR. INST.	MERTWETHER	2 -1-85	8503	1.000	5 + 1			
12119	4646 PITTS TP	TIFT	2-21-85	8503	1.000	< 2			
21570	4647 LEE'S MHP	TERRELL	2-21-85	8503	1.000	2 + 1			
05502	4648 COUNTRY CIRCLE S/D	COLQUITT	1-29-85	8503	1.000	8 + 2			
36733	4649 SHADY ACRES MHP	TOOMES	2-26-85	8503	1.000	3 + 1			
26947	4650 MILLER PINES S/D	CHATHAM	2-25-85	8503	4.000	2 + 1			
27926	4651 LAKE LILLIQUAN	THOMAS	2-27-85	8503	4.001	2 + 1			
14824	4652 MOUNTVILLE W.A.	TROUP	3 -4-85	8503	4.004	84 + 3			
15058	4653 MOODY AFB	LOWNDES	2-28-85	8503	1.003	2 + 1			
11857	4654 PARROTT, CITY OF	TERRELL	2-26-85	8503	1.000	< 2			
21561	4655 LAZY PINES MHP	TERRELL	3 -4-85	8503	1.000	< 1			
11890	4656 BOSTON, CITY OF	THOMAS	2-28-85	8503	1.003	< 2			
17241	4657 ROSE CITY MHP	THOMAS	2-27-85	8503	1.001	5 + 1			
03130	4658 ROYAL COURT MHP	CLAYTON	2-28-85	8503	3.000	60 + 3			
07582	4659 PERRY, CITY OF	HOUSTON	2-26-85	8503	1.000	5 + 1			
00835	4660 QUITMAN, CITY OF	BROOKS	3-28-85	8503	1.002	2 + 1			
25919	4661 HARGETT'S TP	BEN HILL	3-26-85	8503	1.000	< 2			
27409	4662 ARGYLE VILLAGE S/D	CHATHAM	2-22-85	8503	0.001	< 1			
03439	4663 ELLENTON, TOWN OF	COLQUITT	3 -5-85	8503	1.000	7 + 2			
25783	4664 WINDING WAY EST.	QUITMAN	3 -6-85	8503	1.000	< 1			
05548	4665 RUFUS NORMAN MHP	COLQUITT	3 -5-85	8503	1.000	7 + 2			
13344	4666 PRESTON, CITY OF	WEBSTER	3 -6-85	8503	1.000	1 + 1			
27644	4667 LAUREL CROSSING	FANNIN	3 -2-85	8503	4.001	5 + 1			
24877	4668 ELDORADO	TIFT	3-22-85	8503	4.000	41 + 5			
12155	4669 TIFTON IND PARK	TIFT	3-22-85	8503	4.004	17 + 3	3.6	< 1.0	
24877	4670 ELDORADO	TIFT	3-22-85	8503	4.000	40 + 5			
12155	4671 TIFTON IND PARK	TIFT	3-22-85	8503	4.005	43 + 3			
2155	4672 TIFTON IND PARK	TIFT	3-22-85	8503	4.000	14 + 3			
8122	4673 JONES COUNTY W.S.	JONES	3-18-85	8503	4.005	< 2			
8425	4674 HARRIS MHP	COWETA	8-14-84	8503	1.000	< 2			
0408	4675 HORACE DOLLAR MHP	GRADY	3-19-85	8503	1.001	2 + 2			
6981	4676 KELLY PINES MHP	LOWNDES	8-21-84	8503	1.001	< 2			
2274	4677 RIDGECREST CIRCLE HD	TOWNS	3-20-85	8503	1.000	< 2			
3810	4678 EAST NEWNAN W.S.	COWETA	8-14-84	8503	1.000	4 + 1			
8573	4679 WOODLAND MHP	LEE	3-12-85	8503	1.000	< 2			
2754	4680 RANCHO NORTH	JACKSON	2-21-85	8503	1.000	4 + 1			
9036	4681 OAK TERRACE	LOWNDES	3-19-85	8503	1.001	< 2			
5777	4682 FOREST LAKE EST.	TIFT	3-12-85	8503	1.000	9 + 2			
1380	4683 SHADY SHORES	STEPHENS	2-26-85	8503	1.000	6 + 2			
1326	4684 MARTIN, CITY OF	STEPHENS	3-12-85	8503	1.000	< 2			
1399	4685 SHOREWOOD ESTATES	STEPHENS	3-12-85	8503	1.000	6 + 2			
7241	4686 ROSE CITY MHP	THOMAS	9-17-84	8503	3.001	4 + 1			
1158	4687 ATTAPULGUS, CITY OF	DECATUR	9-28-84	8503	3.002	2 + 2			
5423	4688 MEADOWCROOK S/D	DECATUR	3-14-85	8503	1.001	2 + 2			
2480	4689 PECAN PARK MHP	GRADY	3-19-85	8503	1.002	2 + 2			

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SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
01410	4690 JENKINSBURG, CITY OF	BUTTS	3-25-85	8504	4.002	2 + 1			
13436	4691 SKY LAKE INC	WHITE	3-26-85	8504	1.000	< 2			
09883	4692 BOSTWICK, CITY OF	MORGAN	3-27-85	8504	1.000	< 2			
09755	4693 CULLODEN, CITY OF	MONROE	3-19-85	8504	3.002	< 2			
00466	4694 ALAPAHA, CITY OF	BERRIEN	3-21-85	8504	3.001	17 + 3			
04259	4695 CHESTER, CITY OF	DODGE	3-26-85	8504	1.000	< 2			
04240	4696 CHAUNCEY, CITY OF	DODGE	3-26-85	8504	1.000	2 + 2			
13920	4697 RAWL'S S/D	LAURENS	2-27-85	8504	1.000	< 1			
16727	4698 PEACEFUL VALLEY SD	WHITE	3-2-85	8504	1.000	4 + 2			
00475	4699 ENIGMA, CITY OF	BERRIEN	3-21-85	8504	3.002	5 + 1			
15517	4700 VALDOSTA C.C.	LOWNDES	3-28-85	8504	1.001	2 + 1			
01971	4701 THUNDERBOLT, TOWN OF	CHATHAM	4-11-85	8504	4.003	2 + 2			
22718	4702 FAMILY LIFE ENR CTR	COONEE	3-28-85	8504	1.000	< 1			
11057	4703 ELKS AIDMORE HOME	ROCKDALE	4-4-85	8504	1.000	< 2			
03475	4704 RIVERSIDE, TOWN OF	COLQUITT	4-9-85	8504	1.000	< 3			
10008	4705 MANSFIELD, CITY OF	NEWTON	4-4-85	8504	1.000	13 + 2			
04378	4706 ALBANY, CITY OF	DOUGHERTY	3-28-85	8504	4.035	< 2			
00240	4707 STATHAM, CITY OF	BARROW	4-11-85	8504	4.000	6 + 2			
09932	4708 CHATSWORTH, CITY OF	MURRAY	4-18-85	8504	4.000	2 + 1			
09953	4709 MEADOWVIEW S/D	COWETA	4-23-85	8504	4.004	2 + 1			
03630	4710 COLUMBIA CO. W.S.	COLUMBIA	4-4-85	8504	4.001	< 2			
07366	4711 FRANKLIN/HEARD W.A.	HEARD	4-19-85	8504	4.000	< 1			
11191	4712 DONALSONVILLE	SEMINOLE	4-16-85	8504	4.004	< 2			
17343	4713 ALCOVY MHP	NEWTON	4-23-85	8504	1.000	< 1			
17391	4717 MEADOWCROOK MHP	NEWTON	4-23-85	8504	1.000	< 2			
15653	4715 WINDY ACRES MHP	COLUMBIA	4-11-85	8504	1.001	< 1			
09932	4716 CHATSWORTH, CITY OF	MURRAY	4-18-85	8504	3.000	< 2			
35114	4717 PINE VALLEY S/D	NEWTON	4-23-85	8504	1.000				
17468	4718 TRUDEL'S MHP	NEWTON	4-23-85	8504	1.000	< 2			
09408	4719 DANIELSVILLE	MADISON	4-16-85	8504	1.000				
10190	4720 LEXINGTON, CITY OF	OGLETHORPE	4-16-85	8504	1.000	15 + 2			
36026	4721 ASHURST MHP	LOWNDES	4-22-85	8504	1.001	< 2			

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## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8505....MAY, 1985 INCOMPLETE

#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAB DATE	TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
27980	4722	TIVOLI MARSH S/D	BRYAN	4-29-85	8505	4.001	< 1			
03900	4723	ROLLIN HILLS MHP	CARROLL	4-29-85	8505	4.002	2 + 1			
#####	4724	MODENA ON SKIDAWAY		5 -1-85	8505	4.001	< 1			
20930	4725	PINE NEEDLE MHP	COLUMBIA	4-24-85	8505	1.000	< 2			
06714	4726	SUWANEE, CITY OF	GWINNETT	4 -3-85	8505	1.000	3 + 1			
06732	4727	NORCROSS MHP	GWINNETT	4 -3-85	8505	1.000	< 1			
17428	4728	SUBURBAN MHP	HALL	4 -2-85	8505	1.000	< 2			
18829	4729	MOBILE CITY MHP	COLUMBIA	4-24-85	8505	1.000	2 + 1			
07003	4730	LANIER SAIL CLUB	HALL	4 -2-85	8505	3.000				
11375	4731	TIMEHURRIDGE EST.	HALL	4 -4-85	8505	1.000	< 1			
16674	4732	MT. VIEW LAKE EST.	HALL	4 -4-85	8505	1.000	< 1			
27880	4733	BRYAN WOOD EST. 3	BRYAN	5 -6-85	8505	4.001	< 2			
#####	4734	PONDEROSA TP		4-26-85	8505	4.001	< 2			
28071	4735	PIEDMONT PARK SD	MONROE	5 -9-85	8505	4.001	11 + 2			
26593	4736	PINE RUN SD	THOMAS	5 -6-85	8505	1.002	11 + 2			
12164	4737	TIFT CO WS RD. DEPT	TIFT	5 -1-85	8505	1.000				
03829	4738	GRANTVILLE, CITY OF	COWETA	5 -7-85	8505	1.000	2 + 1			
20013	4739	MORLAND, CITY OF	COWETA	5 -7-85	8505	1.000	2 + 1			
15930	4740	K&M MHP	COWETA	5 -7-85	8505	1.000	< 1			
03953	4741	MEADOWVIEW SD	COWETA	5 -7-85	8505	1.000				
21875	4742	HIDEAWAY TP	TIFT	5 -1-85	8505	1.000	< 2			
12155	4743	TIFTON IND PARK	TIFT	5 -3-85	8505	1.000	8 + 2			
26593	4744	PINE RUN SD	THOMAS	5 -6-85	8505	1.001				
08918	4745	BROWN'S MHP	LOWNDES	5 -2-85	8505	1.001	1 + 1			
25367	4746	TTT MHP	SUMTER	2-27-85	8505	4.001	< 2			
11326	4747	MARTIN, CITY OF	STEPHENS	5-14-85	8505	4.006	< 2			
7680	4748	HILLSIDE SD	LOWNDES	5-13-85	8505	4.001				
0616	4749	CLAYTON, CITY OF	RABUN	5 -8-85	8505	4.001	2 + 1			
5794	4750	FRANKLIN SPRGS, CITY	FRANKLIN	5-13-85	8505	4.004	2 + 1			
4752	4751	ECHOLES CO. WA	ECHOLS	5-13-85	8505	1.001	< 2			
3992	4752	GLENDALE SD	LEE	5-14-85	8505	1.000	< 1			
1142	4753	GORDON MCLEOD MHP	LOWNDES	5 -7-85	8505	1.001	< 2			
1936	4754	OAKRIDGE TP	TIFT	5-17-85	8505	6.000				
1577	4755	WHISPERING PINES EST	TIFT	5-17-85	8505	6.000				
2155	4756	TIFTON IND PARK	TIFT	5-17-85	8505	6.000				
6692	4757	SHADY LANE MHP	CRISP	5-17-85	8505	1.001	< 1			
4158	4758	ATTAPULGUS, CITY OF	DECATUR	5-21-85	8505	6.000				
0945	4759	HOEB'S S/D	TIFT	5-22-85	8505	1.000	2 + 1			
7241	4760	ROSE CITY MHP	THOMAS	5-16-85	8505	3.001	3 + 1			

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GEORGIA INSTITUTE OF TECHNOLOGY  
OFFICE OF INTERDISCIPLINARY PROGRAMS  
205 OLD CIVIL ENGINEERING BUILDING  
ATLANTA GEORGIA 30332

ENVIRONMENTAL RESOURCES CENTER  
(404) 894-2375

BIOENGINEERING CENTER  
(404) 894-2375

DATE: July 15, 1985

TO: James Hardeman, Program Manager  
Environmental Radiation Program  
Environmental Protection Division, DNR

FROM: Bernd Kahn, Director  
Environmental Resources Center

SUBJECT: Monthly Report of Activities for the State by the  
Environmental Radiation Laboratory, June, 1985

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The results of radionuclide analyses are reported for the following sample types that were processed this month:

Environmental radionuclide monitoring at nuclear facilities by DNR staff	Table 1-16
Other samples collected by DHR staff	Table 17
Monitoring by DNR staff of community water systems	Table 18
Environmental radiation monitoring at nuclear facilities by DNR staff.	Table 19

Of the samples collected in the environment at nuclear facilities, the following contained radioactivity that may be attributed to the facility:

Table 2—H-3 in milk at the Hatch Plant.

Table 7—H-3 in surface water at the Farley Plant.

Tables 14, and 16—H-3 in grass, rain, and surface water at the Savannah River Plant.

All other radionuclides in Tables 1-16 are attributed to fallout or the natural radiation background. All samples collected for the NRC project are indicated by asterisks in the appropriate tables. Samples of surface water, SR2023 and 2025, that were filtered and counted because the unfiltered samples showed elevated gross alpha and beta particle activity (Table 8, May Report), both had the following radioactivity levels: gross alpha,  $<2$  pCi/l ; gross beta  $3 \pm 2$  pCi/l.

Smears collected at a dial painting facility (H-3, Pm-147) showed H-3 activity in all smears counted by liquid scintillation counting (Table 17). The intermediate energy window, corresponding to Pm-147, indicated low radioactivity levels in 3 smears, and the high energy window indicated radioactivity in 3 smears. Two of these contain an alpha-particle emitter, as confirmed by counting the smear with a gas-flow-proportional counter at the alpha-particle detection voltage.

Radioactivity results for community water supplies, compiled in Table 18, are partial data for samples WS 4167-4310 and WS 4553-4925.

Elevated radium levels ( $>5\text{pCi/l}$ ) were found in the following:

WS 4266	Oak Ridge TP
WS 4277	Spring Valley SD
WS 4570	Brittany Harbor South
WS 4625	Pine Hill MHP
WS 4642	Spring Valley SD

No uranium concentrations ( $>15\text{ pCi/l}$ ) were found.

Results for community water supplies continue to be reported in a different form this month due to computer difficulties.

TLD measurements obtained in the vicinity of the Georgia Tech Reactor and Hatch, Sequoyah and Vogtle (SRP) Plants and at background locations are reported in Table 19. Ranges of exposure, in mR/yr, were:

<u>Location</u>	<u>Near Plant</u>	<u>Background</u>
Hatch	30 - 56	43 - 82
Vogtle/SRP	36 - 78	43 - 91
Georgia Tech	85 - 444	43 - 91
Sequoyah	62 - 88	48 - 112

All of the exposure rates are attributable to the natural radiation background, except one very high value (see above) at the Georgia Tech Research Reactor, but the background stations are not sufficiently matched to confirm this.

The types of samples and number of each that were analyzed are summarized in the following two tables.

Number of Samples Analyzed in Month

	water	air filter	air cartridge	milk	grass, veg.	soil, sediment	animals	smears	TLD	TOTAL
gross alpha	162	6						5		173
gross beta	5	10								15
gamma spectra	20		10	6	7	1				44
H-3	29			6	14			24		73
Sr-89/90	0									0
I-131	6									6
Ra-226	20									20
Ra-228	4									4
U	0									0
dose									33	33
other	0								0	
Total	246	16	10	12	21	1	0	29	33	368

Sample Types Analyzed in Month

<u>Sample Types</u>	<u>Analyzed in Month</u>
Community water supplies	181
Nuclear facilities	159
DHR surveys	17
Quality control - EPA	<u>11</u>
Total	368

Table 1

Radioactivity Levels in Air Samples from the  
Environment of the Hatch Nuclear Plant

Sample No.	Sample Type	Location	Volume, m <sup>3</sup>	Radionuclide concen- tration, pCi/m <sup>3</sup>	
				I-131	Gross beta
* B1270	Cartridge Paper filter	Plant Hatch	1399	<0.01 -----	----- 0.025
* B1271	Cartridge Paper filter	Substation	3448	<0.002 -----	----- 0.010
* B1272	Cartridge Paper filter	Dead River Rd.	1485	<0.002 -----	----- 0.022

- 
- Notes: 1. Samples were collected on May 28, 1985 after 36-day sampling.  
2. No other man-made photon-emitting radionuclides were detected in the cartridges.



Table 2

Radioactivity Levels in Milk Samples from  
the Environment of the Hatch Nuclear Plant

<u>Sample No</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>H-3, pCi/l</u>	<u>I-131 pCi/l</u>
* B1273	Williamson # 170	in process		< 10	1.6	<300	< 2
* B1274	Johnson Bros.	in process		< 6	1.7	500+300	< 2
* B1275	GSP	in process		< 10	1.6	<300	< 3

---

Notes: 1. Samples were collected on June 17, 1985 by Georgia Power Co. staff.  
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 3

Radioactivity Levels in Grass Samples from the  
Environment of the Hatch Nuclear Plant

Sample No.	Location	Dry wt/ Wet wt.	Radionuclide concentration, pCi/kg	
			Cs-137	Be-7
*B 1276	# 5	0.15	93	1,700
*B 1277	# 21	0.15	<50	<500
B 1281	TLD 16	0.23	130	5,000
B 1282	TLD 20	0.27	<50	1,300
B 1283	TLD 22	0.33	230	<800
B 1284	TLD 28	0.20	370	3,200
B 1285	TLD 44	0.15	1030	5,700
B 1286	TLD 45	0.32	70	11,000

- 
- Notes: 1. Samples B-1276-1277 were collected on June 17, 1985, by the Georgia Power Co.; other samples were collected on June 26, 1985.
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 4

Radioactivity Levels in Water Samples from  
The Environment of the Hatch Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
* B 1278	Altamaha R., # 170	< 2	2 $\pm$ 2	<300	< 2
B 1279	Surface, TLD 22	< 2	3 $\pm$ 2	<300	-----
B 1280	Surface, TLD 48	< 2	2 $\pm$ 2	<300	-----

- 
- Notes: 1. Sample B 1278 was collected May 21-June 24, 1985 by Georgia Power Co. staff; samples B 1279-1280 were collected on June 26, 1985.
2. I-131 was calculated as of the final day of the collection period.
3. No man-made photon-emitting radionuclides were detected in these samples. (Cs-137 <20 pCi/l).

Table 5

Radioactivity Levels in Water Composite from the  
Environment in Georgia of the Farley Nuclear Plant

<u>Sample Nos.</u>	<u>Location</u>	<u>Dates collected</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>
F 867, 881	Great Southern Paper Co.	Feb., March	< 5	< 2

---

Notes: 1. Composites were prepared with equal amounts of each sample.  
2. Other results of analyses are given in previous monthly reports.

Table 6

Radioactivity Levels in Air Sample from the  
Environment in Georgia of the Farley Nuclear Plant

<u>Sample No.</u>	<u>Sample type</u>	<u>Location</u>	<u>Volume, m<sup>3</sup></u>	<u>Radionuclide concen- tration, pCi/m3</u>	
				<u>I-131</u>	<u>Gross beta</u>
F 888	Cartridge Paper filter	Great Southern Paper Co.	1374	<0.01 -----	----- 0.012

---

Notes: 1. Samples were collected on May 31, 1985 after 31-day sampling.  
2. No other man-made photon-emitting radionuclides were detected in the cartridge.

Table 7

Radioactivity Levels in Water Sample from  
The Environment in Georgia of Farley Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
F 889	Chattahoochee R., Great Southern Paper Co.	2 $\pm$ 2	5 $\pm$ 2	800 $\pm$ 300	< 1

- 
- Notes:
1. Grab sample was collected on May 31, 1985.
  2. I-131 was calculated as of the final day of the collection period.
  3. No man-made photon-emitting radionuclides were detected in the sample (Cs-137 <20 pCi/l).

Table 8

Radioactivity Levels in Water Sample from  
the Georgia Tech Research Reactor

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>H-3, pCi/l</u>	<u>Co-60, pCi/l</u>	<u>Cs-137, pCi/l</u>
GT 176	Suspect waste	-	-	< 5	< 2	-	-	-
GT 177	Suspect waste	< 6	38 $\pm$ 7	i n p r o c e s s			16	22

- 
- Notes: 1. Sample GT 177 was collected on June 20, 1985.  
2. Other results of analysis for sample GT 176 are given in the March monthly report.

Table 9

Radioactivity Levels in Grass Sample from the  
Environment of the Georgia Tech Research Reactor

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>	
			<u>Cs-137</u>	<u>Be-7</u>
GT 178	TLD # 9	0.28	< 80	6,200
GT 179	TLD # 8	0.19	110	7,900
GT 180	TLD # 11	0.18	230	5,100
GT 181	TLD # 5	0.24	< 80	10,300

- 
- Notes: 1. Samples were collected on June 20, 1985.  
2. No other man-made photon-emitting radionuclides were detected.  
Be-7 is formed in nature.



Table 10

Radioactivity Levels in Soil Sample from the  
Environment of the Kings Bay Submarine Base

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>			
			<u>Cs-137</u>	<u>K-40</u>	<u>Ra-226</u>	<u>Ra-228</u>
KB 222	Crab Island	0.56	290	9,500	700	900

- 
- Notes: 1. Sample was collected on April 25, 1985.  
2. No other man-made photon-emitting radionuclides were detected (Co-60 <40 pCi/kg).

Table 11

Radioactivity Levels in Grass Samples from the  
Environment in Georgia of the Sequoyah Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Dry wt/ Wet wt.</u>	<u>Radionuclide concentration, pCi/kg</u>	
			<u>Cs-137</u>	<u>Be-7</u>
SQ 143	TLD # 3	0.38	< 30	7,700
SQ 144	TLD # 10	0.29	< 60	3,100

- 
- Notes: 1. Samples were collected on June 5, 1985.  
2. No other man-made photon-emitting radionuclides were detected. Be-7 is formed in nature.

Table 12

Radioactivity Levels in Water Samples from  
The Environment in Georgia of Sequoyah Nuclear Plant

<u>Sample No.</u>	<u>Location</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>
SQ 145	Ground, TLD 3	< 2	< 2	300+300
SQ 146	Ground, TLD 10	< 2	< 2	<300

---

Note: Samples were collected on June 5, 1985.

Table 13

Radioactivity Levels in Air Samples from the  
Environment in Georgia of the Savannah River Plant

Sample No.	Sample type	Location	volume, m3	Radionuclide concen- tration, pCi/m3		
				I-131	Gross	
					alpha	beta
SR 2030	Cartridge Paper filter	Hargrove Rd.	4278	<0.002 -----	----- <0.001	----- 0.012
SR 2031	Cartridge Paper filter	GPC simulator	4087	<0.002 -----	----- <0.001	----- 0.009
SR 2032	Cartridge Paper filter	Waynesboro	4248	<0.002 -----	----- <0.001	----- 0.006
SR 2033	Cartridge Paper filter	Ga. Welcome Ctr.	4572	<0.002 -----	----- <0.001	----- 0.008
SR 2034	Cartridge Paper filter	Augusta	3372	<0.002 -----	----- <0.001	----- 0.008
SR 2035	Cartridge Paper filter	Girard	3959	<0.002 -----	----- <0.001	----- 0.008

---

Notes: 1. Samples were collected on May 23, 1985 after 35-day sampling.  
2. No other man-made photon-emitting radionuclides were detected in the cartridges.

Table 14

Radioactivity Levels in Water Samples from  
The Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Inches Rainfall</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 2036	Savannah R., Hwy 301	-----	< 2	6 $\pm$ 2	< 300	< 3
SR 2037	Girard, rain	1.0	< 1	3 $\pm$ 2	< 300	-----
SR 2038	Augusta, rain	1.0	< 1	3 $\pm$ 1	< 300	-----
SR 2039	Waynesboro, rain	2.1	< 1	3 $\pm$ 2	800 $\pm$ 300	-----
SR 2040	Hargrove Rd., rain	1.0	< 2	9 $\pm$ 2	< 300	-----
SR 2041	I & D Water Supply, Port Wentworth	---	< 2	3 $\pm$ 2	4,300 $\pm$ 400	<0.7
SR 2042	Savannah R., R-2	---	< 1	2 $\pm$ 2	< 300	< 1
SR 2043	Savannah R., R-3B	---	< 2	3 $\pm$ 2	600 $\pm$ 300	< 1
SR 2044	Savannah R., R-10	---	< 2	3 $\pm$ 3	4,000 $\pm$ 400	< 1
SR 2048	Port Wentworth, raw composite	---	< 2	3 $\pm$ 2	3,800 $\pm$ 400	-----
SR 2049	RM 150.4	---	< 2	2 $\pm$ 2	600 $\pm$ 300	-----
SR 2050	Augusta, raw composite	---	< 2	2 $\pm$ 2	<300	-----
SR 2051	RM 151.2	---	< 2	5 $\pm$ 2	700 $\pm$ 300	-----
SR 2055	TLD 6, surface	---	< 1	2 $\pm$ 2	<300	-----
SR 2056	TLD 10, surface	---	< 2	2 $\pm$ 2	<300	-----
SR 2057	TLD 15, surface	---	< 2	< 3	1,200 $\pm$ 300	-----
SR 2058	TLD 17, surface	---	< 2	< 3	2,800 $\pm$ 300	-----

Table 14 (cont)

<u>Sample No.</u>	<u>Location</u>	<u>Inches Rainfall</u>	<u>Gross alpha, pCi/l</u>	<u>Gross beta, pCi/l</u>	<u>H-3, pCi/l</u>	<u>I-131, pCi/l</u>
SR 2059	Upstream from sampler at TLD 20	---	< 2	< 3	3,900 $\pm$ 400	----
SR 2060	Grab sample at TLD 20	---	< 1	3 $\pm$ 2	3,400 $\pm$ 400	----
SR 2061	Composite from sampler at TLD 20, Hwy 301		< 2	5 $\pm$ 2	<300	< 2

- 
- Notes: 1. Sample SR2036 was collected April 18 - May 23; samples SR2037-2040 were collected April 14-May 24, 1985; sample SR2041 was collected June 5-11, 1985; samples SR2042-2044 were collected on June 11, 1985, by Savannah River Plant staff; samples SR2048-2051 were collected May 14-June 18, 1985, by Georgia Power co. staff; samples SR2055-2060 were collected on June 28, 1985; and sample SR2061 was collected May 23-June 26, 1985.
2. I-131 was calculated as of the final day of the collection period.
3. No man-made photon-emitting radionuclides were detected in samples SR2036, 2041-2044, 2048-2051, and 2055-2061.

Table 15

Radioactivity Levels in Milk Samples from  
the Environment in Georgia of the Savannah River Plant

<u>Sample No.</u>	<u>Location</u>	<u>Sr-89, pCi/l</u>	<u>Sr-90, pCi/l</u>	<u>H-3, pCi/l</u>	<u>Cs-137, pCi/l</u>	<u>K, g/l</u>	<u>I-131, pCi/l</u>
SR 2045	Waynesboro	in process			< 6	1.9	< 4
SR 2046	Girard	in process			<10	1.3	< 2
SR 2047	Gracewood	in process			< 6	1.8	< 2

- 
- Notes: 1. Samples were collected on June 13, 1985, by Savannah River Plant staff.  
2. No other radionuclides were detected (Ba-140 <20 pCi/l).

Table 16

Radioactivity Levels in Grass Samples from the  
Environment in Georgia of the Savannah River Plant

Sample No.	Location	Dry wt/ Wet wt.	H-3, pCi/l	Radionuclide concentration, pCi/kg	
				Cs-137	Be-7
SR 2052	GPC simulator	0.39	25,000±600	180	1,200
SR 2053	Hancock Landing	0.49	500±300	44	1,700
SR 2054	Waynesboro	0.54	<300	53	2,000
SR 2062	TLD 17	0.22	600±300	170	980
SR 2063	TLD 2	0.32	11,300±500	<40	3,600
SR 2064	TLD 6	0.24	11,200±500	<40	3,300
SR 2065	TLD 8	0.49	1,900±300	<40	3,300
SR 2066	TLD 10	0.38	16,900±500	260	2,900
SR 2067	TLD 11	0.30	4,200±400	80	3,000
SR 2068	TLD 15	0.32	1,300±300	190	3,500
SR 2069	TLD 20	0.24	300±200	<90	1,300
SR 2070	TLD 22	0.34	700±300	<40	3,300
SR 2071	TLD 25	0.38	3,000±300	42	3,400
SR 2072	TLD 35	0.20	1,800±300	250	2,800

- 
- Notes: 1. Samples SR 2052-2054 were collected on June 25, 1985, by Georgia Power Co. staff; samples SR 2062-2072 were collected on June 27, 1985.  
2. No other man-made photon-emitting radionuclides were detected.  
Be-7 is formed in nature.



Table 17

Radioactivity in Smears from Westclox, Athens

Sample No.	Location	Liquid Scintillation Counter, pCi/smear			Gross alpha, pCi/smear
		H-3 window	C-14 window	P-32 window	
S 2473	Drum # 1	5,700 $\pm$ 80	20	6	2 $\pm$ 1
S 2474	Drum # 1	1,000 $\pm$ 30	5	35	56 $\pm$ 5
S 2475	Drum # 2	100 $\pm$ 15	<2	<2	< 1
S 2476	# 1, Dry, Table # 1	80 $\pm$ 10	<2	<2	-----
S 2477	# 1, Dry, Table # 2	500 $\pm$ 25	<2	10	< 1
S 2478	# 2, Dry, Table # 2	300 $\pm$ 20	<2	<2	-----
S 2479	# 2, Dry, Table # 2	300 $\pm$ 20	<2	<2	-----
S 2480	# 1, Wet, Table # 1	90 $\pm$ 15	<2	<2	-----
S 2481	# 1, Wet, Table # 1	400 $\pm$ 20	<2	<2	-----
S 2482	# 2, Wet, Table # 2	100 $\pm$ 15	<2	<2	-----
S 2483	# 2, Wet, Table # 2	500 $\pm$ 25	2	<2	-----
S 2484	# 3 Control	< 10	<2	<2	< 1

- 
- Notes: 1. Samples were collected by DHR staff on June 6, 1985.  
 2. The radionuclides listed in the headings refer to energy windows, not necessarily to radionuclides present.  
 Efficiencies used are as follows: H-3 = 0.29; C-14 = 0.58; P-32 = 0.90.

FILE	LOCATION	DATE COLLECTED	TYPE + VELL#	GROSS ALPHA PCI/L	FA- 226 PCI/L	FA- 228 PCI/L	URANIUM PCI/L
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Table 18

4167...302502327	FINE FOREST SD	7-17-84	1.000	< 2	Radioactivity in Community Water Supplies		
4168...302502390	PINEWOOD MHP	7-17-84	1.000	< 2			
4169...302502150	ESTILL HAMMOCK	7-19-84	1.000	< 2			
4170...306706617	EUFOR	7-25-84	1.000	< 1			

4171...312924425	BRIDLE PATCH MHP	7-30-84	1.000	< 1			
4172...311210389	EIG CANOE	7-24-84	4.003	1 + 1			

4173...304404225	CLARKSTON	7-24-84	1.000	< 1			
4174...406309952	OAK ACRES WATER ASSN	7-31-84	1.000	< 4			

4175...302201697	TEMPLE	7-26-84	1.000	< 2			
4176...306006007	PALMETTO	7-24-84	1.000	< 2			

4177...302522565	GLEN OF ROBIN HOOD	7-25-84	1.001	< 2			
4178...304704439	CAVEY SD	7-25-84	1.001	< 3			

4179...301500984	CAFE HAROWICH	6-29-84	1.000	< 2			
4180...413621665	TWIN ACRES SD	7-17-84	1.001	< 3			

4181...313620753	TOWN & COUNTRY EST	5-7-84	1.001	6 + 2	2.0	< 1.0	
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4182...303103112	RIVERDALE	7-24-84	1.000	< 2			
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4183...308714652	WARNOCK'S TR	7-25-84	1.000	< 3			
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4184...302502442	TALAHU LAKES ESTATES	7-17-84	1.000	< 3			
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4185...303703743	ATL	7-26-84	1.000	< 4			
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4186...306606586	WATERFORD	8-2-84	1.000	8 + 2	1.5	< 1.5	
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4187...000000000	COMETIA CC	5-14-84	0.000	1 + 1			
4188...312611310	SOUTH HAMPTON MHP	12-29-83	5.000	3 + 1			
4189...312311063	ELLAVILLE	10-27-82	0.003	4 + 1	1.1		
4190...405826874	SUNDOWN SE	10-29-81	0.005	3 + 1			
4191...306806809	MT AIRY	5-18-82	0.004	< 1			
4192...405107621	HODGESVILLE MHP	10-13-81	6.000	< 2			
4193...310218618	DAVIS MHP	12 -8-84	3.000	62 + 4	3.8	1.5	66 + 5
4194...310218618	DAVIS MHP	2-10-83	3.000	41 + 4	3.8	< 1.0	41 + 3
4195...306306293	NEW HOPE PLANTATION	10 -1-82	1.002	2 + 2			
4196...302023183	MISSION TRACE SE	4-15-81	6.000	< 3			
4197...301000466	ALAPAH	2-22-82	3.000	5 + 2	7.6	1.2	
4198...302522954	SHADY ACRES MHP	8-12-81	1.000	< 3			
4199...303816599	SWEETBRIAR MHP	6-17-82	0.000	< 2			
200...300800292	EARICK CC	7-13-82	0.000	2 + 1			
201...409137471	BOATRIDGE TP	12-14-82	1.000	< 3			
202...401001262	HENNETT'S MHP#2	1-29-82	0.000	2 + 1			
203...308708275	EAST DUBLIN	10 -7-82	5.003	< 3			
204...315125148	PINE GROVE MHP	8 -5-82	0.000	< 3			
205...301524276	BEE WATER WORKS	12-14-81	0.000	< 2			
206...301601160	CLARKS MHP	12 -1-82	0.000	< 2			
207...306316548	WINDWARD ACRES	10-19-81	0.000	< 3			
208...300000576							

Address	City	State	Zip	Lat	Long	Alt	Pop
209...311722024	FINE FOREST SD	1	-7-82	6.003	5 + 2	0.4	
210...309876543	EULONIA COMMUNITY	8-14-84	4.001	< 3			
211...306916036	MARLETTE HEIGHTS	8 -8-84	4.000	< 2			
212...307816917	TOLBERT MHP	8-14-84	4.003	3 + 1			
213...409045149	REEL POULTRY	8 -9-84	4.001	< 1			
214...306627338	INDIAN HILLS ESTATES	7-23-84	4.001	11 + 2	0.5	1.3	
215...407612477	FINEWOOD VILLAGE	8 -8-84	1.000	2 + 1			
216...305104777	KINOOK	8 -8-84	1.002	< 2			
217...301114297	MOBILE WORLD	8-15-84	1.000	2 + 1			
218...301500993	LAKE LAFRAINE	8 -7-84	1.000	< 2			
219...314012283	SOPEFTON	8-10-84	1.000	2 + 2			
220...301113920	HAWAIIAN VILLAGE MHP	8-15-84	1.000	2 + 2			
221...307607528	CENTERVILLE	8-15-84	1.002	< 1			
222...306206162	MITCHELL	8 -9-84	1.000	< 1			
223...300117114	VILLAGE MHP	8 -7-84	1.000	2 + 2			
224...311722024	FINE FOREST SD	7-26-84	1.000	2 + 1			
225...304714155	BIG N. TP	7-25-84	1.001	< 2			
226...301100658	SHELTERING PINES MHP	8 -3-84	1.001	< 2			
227...302514003	MORGAN MHP	8 -2-84	1.000	< 2			
228...401101560	MACON HEALTH CARE	7-31-84	1.001	1 + 1			
229...301114286	CALLE VINAS SD	7-31-84	1.001	< 1			

1230...302017178	CONNOLOPE POINT	8-8-84	1.000	< 2		
1231...401501964	GARDNER ESTATES	8-15-84	1.000	< 2		
1232...308927247	CAK HILL ESTATES	8-16-84	4.000	< 2		
1233...308715886	LAUREN WATER CO INC	8-8-84	1.000	< 2		
1234...302201776	TWIN CAKE MHP	8-24-84	1.000	1 + 1		
1235...312421537	BUCK CREEK ACRES MHP	8-1-84	1.000	< 1		
1236...301100667	BURCH GARDENS MHP	8-3-84	1.000	< 2		
1237...301518251	ELACK CREEK FARMS W	8-15-84	1.000	< 2		
1238...302502196	GRAYS ST	8-15-84	1.000	< 2		
1239...302502035	GROVE HILL SD	8-2-84	1.000	2 + 2		
1240...302522112	MATHEWS MHP	8-7-84	1.000	< 3		
1241...309809533	SAPELO GARDENS SD	8-14-84	1.000	< 3		
1242...312110729	AUGUSTA	8-10-84	1.000	< 2		
1243...312210993	NILSTEAD	8-10-84	1.000	< 2		
1244...412420601	ERINSON'S TP	8-1-84	1.000	< 3		
1245...310710123	PORTERDALE-EIFFE MFG	8-10-84	1.000	< 2		
1246...309819693	YOUNGS ISLAND	8-14-84	1.000	< 2		
1247...315813629	IRWINTON	7-29-83	2.000	4 + 1	0.3	
1248...305125848	FOXBOY FARMS NORTH	3-27-84	5.001	< 2		
1249...312711395	SHOREWOOD ESTATES SD	9-28-83	5.000	16 + 3	1.9	
1250...301000475	ENIGMA	3-26-84	2.002	3 + 2	1.8	
1251...301601063	STATESBORO	11-16-82	5.007	< 3		

4252...301115120 AVONDALE MHP	2-20-84	5.002	3 + 1	
4253...302524075 SAVANNAH	8-25-81	2.026	< 3	
4254...304204124 DAWSONVILLE	12 -8-83	5.002	4 + 2	0.8
4255...312110765 RICHMOND CO	12-19-83	5.105	< 2	
4256...313626292 NEWARK WATER SYS	1-19-84	5.001	< 2	
4257...305605216 DIX-LEE-ON ESTATES	12-29-83	5.006	< 2	
4258...305905776 CANON	3 -5-84	5.002	< 2	
4259...412921256 SUMTER CO CI	1 -6-84	5.002	< 2	
4260...306408104 GRAY	3-13-84	2.006	4 + 2	
4261...307316134 BOWERSVILLE	1 -9-84	5.001	2 + 2	
4262...304204124 DAWSONVILLE	3-10-83	5.000	2 + 1	
4263...308823992 GLENDALE SD	1-10-84	5.001	< 3	
4264...305805645 LADY WATER CO	8 -5-83	5.000	1 + 1	
4265...312611277 CARLISLE SD	12-29-83	5.000	< 2	
4266...413721936 OAK RIDGE TP	12 -6-83	5.001	83 + 6	93.0
4267...301623368 COUNTRY CLUB HILLS	1 -4-84	5.001	< 3	
4268...307923482 ALCOVY SHORES	3-31-83	2.000	9 + 2	< 0.1 < 1.0
4269...307023106 WOODLAND VALLEY ST	3-29-83	5.000	4 + 2	
4270...311210361 PICKENS CO WATER AU	3-15-84	5.001	7 + 2	1.0 < 1.0
4271...303603649 GROVETOWN	11 -9-82	5.015	2 + 1	
4272...300125278 LAKE TARA MHP	3-28-84	5.001	< 3	
4273...307025014				

SCenic SHORE SL	5-22-84	5.002	24 + 6	2.7
274...304025185 CELAF LAKE ESTATES	8 -9-83	5.001	< 2	
275...313626760 RIVERWOOD SD	3-22-84	5.001	3 + 2	0.6
276...308608223 LAKELAND	12-15-83	5.002	2 + 2	
277...410734953 SPRING VALLEY SD	3-16-84	5.000	131 + 8	14.4
278...308926095 OGDEN TP #2	6 -2-83	5.002	2 + 1	
279...302323801 HOUSTON VALLEY	1 -9-84	5.000	< 3	
280...309525820 JUELLEE PARTNERS	3 -8-84	5.001	10 + 2	< 0.1 < 1.0
281...405608540 FERNWOOD MHP	12-29-83	5.001	< 2	
282...302802814 CHEROKEE CO WS	11-21-83	5.000	< 2	
283...306408104 GRAY	3-13-84	2.002	< 2	
284...302502275 OGEECHEE FARMS SD	1-31-84	5.002	< 2	
285...306408104 GRAY	3-13-84	2.005	< 3	
286...306408104 GRAY	3-13-84	2.004	10 + 2	2.3 < 1.0
287...304023329 MEADOW ROCK SD	11 -6-83	5.002	< 2	
288...304026018 OMAR HEIGHTS SD	11 -6-83	5.001	< 3	
289...312110765 RICHMOND CO WS	12-19-83	5.106	< 2	
290...305304957 GARFIELD	11 -3-83	5.002	< 3	
291...307222532 HARRIS CO WS	1-27-84	5.000	< 1	
292...305824400 KINGS HARBOR SD	9-13-83	5.000	< 2	
293...304204124 DAWSONVILLE	12 -6-83	5.001	7 + 3	1.7
294...310309855 TARRYTOWN	11-16-83	5.002	< 3	

4295...308107551 LOUISVILLE	1-16-84	5.006	< 1	
4296...309208963 FOXBOROUGH SD	3-26-84	5.002	< 3	
4297...308925092 OGDEN MHF	6-2-83	5.001	< 3	
4298...307025014 SCENIC SHORES SE	3-22-84	5.004	< 4	
4299...310716848 LOOP 81 MHF	3-16-84	2.000	2 + 2	
4300...305304993 SWAINSBORO	2-2-84	5.009	< 2	
4301...309226026 ASHURST ESTATES SD	3-15-84	2.001	< 3	
4302...309225254 HIDDEN VILLAGE SD	3-6-84	2.001	< 2	
4303...307025014 SCENIC SHORES SE	3-22-84	5.005	3 + 2	0.4
4304...306907056 SHADY GROVE TP	11-7-83	5.003	< 1	
4305...310721879 COUNTRY ACRES MHF	11-30-83	5.000	2 + 2	
4306...309525820 JUEILEE PARTNERS	3-8-84	5.002	< 2	
4307...304025194 DOGWOOD HILLS SE	11-8-83	5.001	< 3	
4308...308408104 GRAY	3-13-84	2.001	6 + 2	1.0
4309...315813656 TOOMSBORO	8-31-83	5.003	4 + 2	0.6
4310...315413436 SKYLAKE WATER SYS	12-30-83	5.004	2 + 2	



## RADIACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8501

	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAI DATE	TYPE/ VELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
027862	4553	ANNEEWAKEE N. SYST. 2	POLK	1-3-85	8501	4.002	7 + 2	0.9	2.5	
011524	4554	PLAINS, CITY OF	SUMTER	1-4-84	8501	4.006	8 + 2	2.5	1.7	
027871	4555	ANNEEWAKEE N. SYST. 2	POLK	1-3-85	8501	4.001	< 1			
011524	4556	PLAINS, CITY OF	SUMTER	1-4-85	8501	4.005	3 + 1			
026238	4557	HIDDEN ACRES S/D	THOMAS	1-8-85	8501	4.000	< 1			
043325	4558	ROEINS AFE	HOUSTON	12-14-84	8501	1.000	3 + 1			
017241	4559	ROSE CITY MHP	THOMAS	12-12-84	8501	3.000	3 + 1			
014616	4560	WOODLAND TRAILS MHP	LAURENS	1-3-85	8501	1.000	2 + 2			
000466	4561	ALAPAHA, CITY OF	BERRIEN	12-19-84	8501	3.000	25 + 3	7.8	< 1.0	< 2
013887	4562	THUNDERING SPRING INC	LAURENS	12-18-84	8501	1.000	< 2			
008223	4563	LAKELAND, CITY OF	LANIER	12-19-84	8501	1.000	4 + 1	1.8		
0708433	4564	TARPLEY'S MHP	LAURENS	12-18-84	8501	1.000	< 1			
0109721	4565	PELHAM, CITY OF	MITCHELL	12-19-84	8501	1.000	2 + 1			
025105	4566	CONGER MHP	WORTH	12-11-84	8501	1.000	2 + 1			
007341	4567	TUGALOC BAY	HART	12-21-84	8501	3.000	18 + 3	1.8	< 1.0	16 + 1
0126132	4568	DAIRY TRACT	JEFFERSON	12-20-84	8501	1.000	< 2			
017279	4569	SCHROER ESTATES	LOWNDES	12-17-84	8501	1.000	< 2			
016495	4570	BRITANNY HARBOR SOU.	FRANKLIN	12-21-84	8501	3.000	61 + 7	11.2	< 1.0	
000475	4571	ENIGMA, CITY OF	BERRIEN	12-19-84	8501	3.000	7 + 1	1.6	< 1.0	
#####	4572	WHITE WATER CREEK		1-17-85	8501	4.001	43 + 4	5.5	1.4	43 + 3
014967	4573	FINE CIRCLE T/P	LOWNDES	1-15-85	8501	4.002	< 2			
0239812	4574	KINGS GAP UTILITIES	HARRIS	1-14-85	8501	4.000	< 1			
#####	4575	QUEENSLAND COMM.		1-15-85	8501	4.001	3 + 1			
024877	4576	EL DORADO WATER SUPP	TIFT	1-16-85	8501	4.000	2 + 1			
012155	4577	TIFTON INCL. PARK	TIFT	1-16-85	8501	4.004	20 + 3	4.0	< 4.0	< 2
012155	4578	TIFTON INCL. PARK	TIFT	1-16-85	8501	4.005	79 + 5	11.6	< 1.0	2 + 1
008476	4579	SMITHVILLE, CITY OF	LEE	1-17-85	8501	1.000	< 1			
025783	4580	WINDING WAY EST.	QUITMAN	1-22-85	8501	1.000	< 1			
012605	4581	SIZLAND T/P	IRWIN	1-16-85	8501	1.000	< 1			
024251	4582	CAMPBELL WATER SYST	DOUGHERTY	1-7-85	8501	1.000	< 1			
025004	4583	FOXGROFT S/D	THOMAS	1-4-85	8501	1.001	2 + 2			
036224	4584	LEE VILLA S/D	LEE	1-22-85	8501	1.000	< 1			
017065	4585	FOREST ESTATES S/D	IRWIN	1-16-85	8501	1.000	< 2			

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## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8502

	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAE DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
800800	4586	ALLATOONA MHP	BARTON	1-29-85	8502	4.004	3 + 1			
337607	4587	TROUF CREEK MARINA	GLYNN	1-23-85	8502	4.000	2 + 1			
734953	4588	SPRING VALLEY SE	NEWTON	1-25-85	8502	4.000	216 + 8	16.7	< 1.0	174 + 14
800800	4589	ALLATOONA MHP	BARTON	1-29-85	8502	4.003	5 + 1	1.0		
811063	4590	ELLAVILLE, CITY OF	SCHLEY	1-24-85	8502	4.005	2 + 1			
737653	4591	WILLOWOOD ESTATES	WALTON	1-25-85	8502	4.000	4 + 1	0.8		
806866	4592	RED BARN MHP	DECATUR	1-28-85	8502	1.000	3 + 1			
808555	4593	PLANTATION MHP	LEE	1-23-85	8502	1.000	< 1			
808909	4594	BATLEY'S MHP	LOWNDES	1-24-85	8502	1.000	2 + 1			
821801	4595	FLINWOOD SD	DECATUR	1-28-85	8502	1.000	< 1			
832428	4596	QUAIL RIDGE NO. SD	FORSYTH	1-21-85	8502	1.000	< 1			
907058	4597	SHADY GROVE TP	HALL	1-30-85	8502	1.000	2 + 1			
222955	4598	WATSON TP	TURNER	1-23-85	8502	1.000	1 + 1			
214454	4599	BROWN'S WS	TURNER	1-23-85	8502	1.000	2 + 1			
933236	4600	LIXIE MHP	HALL	1-30-85	8502	1.000	3 + 1			
227935	4601	PARADISE MHP	LOWNDES	2 -1-85	8502	4.001	4 + 2	1.4		
527899	4602	THE BLUFF-BELLE ISLE	BRYAN	1 -7-85	8502	4.001	< 2			
526664	4603	DERRICK SD	CHATHAM	1-29-85	8502	4.000	< 2			
203797	4604	COOK'S MHP	CARROLL	1 -5-85	8502	4.002	< 2			
812736	4605	PARDUE'S MHP	JACKSON	1-30-85	8502	4.003	6 + 2	0.2	< 1.0	
812736	4606	PARDUE'S MHP	JACKSON	2 -1-85	8502	4.004	6 + 2		< 1.0	
907094	4607	MILLIKEN & CO.	HALL	1-31-85	8502	1.000	< 2			
907685	4608	MILLIKEN & CO.	HALL	1-31-85	8502	1.000	< 2			
937849	4609	HALL CO. CORP. INST.	HALL	1-31-85	8502	1.000	2 + 1			
808494	4610	BIG OAK SD	LEE	2 -4-85	8502	1.000	< 2			
815148	4611	PALMYRA MHP	LEE	2 -4-85	8502	1.000	< 1			
509444	4612	BROWN BROS. FARM SD	MADISON	2 -6-85	8502	4.006	3 + 1			
416000	4613	THE OAKS NURSERY HOME	MACON	2 -5-85	8502	4.002	3 + 1			
114297	4614	MOBILEWORLD-FOREST	ELI	2 -7-85	8502	4.007	< 2			
324488	4615	ARCADE MHP	JACKSON	2 -7-85	8502	1.000	< 2			
813030	4616	JACKSON CO. CI	JACKSON	0 0-85	8502	1.000	3 + 1			
814586	4617	CROOKED CREEK VILL.	JACKSON	0 0-85	8502	1.000	5 + 1			
814941	4618	CHAMEER'S MHP	LEE	2 -5-85	8502	1.000	< 2			
721750	4619	EAR W MHP	TIFT	2 -5-85	8502	1.000	< 2			
807814	4620	NICHOLSON WA	JACKSON	2 -7-85	8502	1.000	3 + 1			
813012	4621	THE POTTER'S HOUSE	JACKSON	2 -7-85	8502	1.000	4 + 1	< 0.1		
116501	4622	BRITTANY HARBOR WEST	FRANKLIN	12-21-84	8502	3.000	35 + 3	3.1		
807828	4623	PINE HAVEN MHP	JACKSON	2 -5-85	8502	1.000	14 + 2	0.2		
807799	4624	HOSCHTON, CITY OF	JACKSON	2 -4-85	8502	1.000	< 2			
117743	4625	PINE HILL MHP	TIFT	2-11-85	8502	3.000	131 + 6	23.6		
804167	4626	BAINBRIDGE, CITY OF	DECATUR	2-11-85	8502	1.000	< 2			
26292	4627	NEWARK W.S.	COLUMBIA	2 -7-85	8502	1.000	< 2			
12146	4628	BOWEN-WRIGHT SD	TIFT	2 -5-85	8502	1.000	< 2			
113705	4629	SYLVESTER, CITY OF	WORTH	1-31-85	8502	1.002	< 2			
113699	4630	SUMNER, CITY OF	FRANKLIN	2 -5-85	8502	1.001	10 + 2	4.3		
11439	4631	LUMPKIN, CITY OF	STEKARI	1-31-85	8502	1.000	2 + 1			
27484	4632	COLONY MHP	JACKSON	2 -5-85	8502	1.000	2 + 1			
09009	4633	MINEOLA MHP	LOWNDES	2 -7-85	8502	1.001	< 2			
11839	4634	BROWNWOOD, CITY OF	TERRELL	1-31-85	8502	1.000	< 2			
19742	4635	BRENTWOOD NORTH SD	LEE	2 -4-85	8502	1.000	2 + 1			

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#	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAI DATE	TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
208893	4636	ACADEMY ACRES SD	LOWNDES	2-14-85	8502	1.001	3 + 1			
#####	4637	WHITEWATER CREEK DEV		2 -7-85	8502	4.002	62 + 4	0.8	< 1.0	85 + 7
826549	4638	BALD RIDGE ON LANIER	FORSYTH	2 -6-85	8502	1.000	< 1			
811457	4639	RICHLAND, CITY OF	STEWART	2-14-85	8502	1.000	< 1			

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## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8503

#	SAMPLE W.S. #	LOCATION	COUNTY	COLLECT DATE	LAE DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
8808546	4640	PINEVIEW MHP	LEE	2-15-85	8503	1.000	< 2			
9220028	4641	LOCKHIN S/D	LOWNDES	2-20-85	8503	1.001	5 + 1	2.0		
3721936	4642	OAK RIDGE MHP	TIFT	2-21-85	8503	1.000	594 + 18	14.0		
4326405	4643	DECATUR CC CORR INST	DECATUR	2-19-85	8503	1.001	< 1			
1822049	4644	CHATHAHOOCHEE PLANT	QUITMAN	2-21-85	8503	1.000	< 2			
9909673	4645	WORTH CORR. INST.	MERIWETHER	2 -1-85	8503	1.000	5 + 1	0.5		
3712119	4646	PITTS TP	TIFT	2-21-85	8503	1.000	< 2			
3521570	4647	LEE'S MHP	TERRELL	2-21-85	8503	1.000	2 + 1			
3505502	4648	COUNTRY CIRCLE S/D	COLQUITT	1-29-85	8503	1.000	8 + 2			
3836733	4649	SHADY ACRES MHP	TOOMBE	2-26-85	8503	1.000	3 + 1			
2526947	4650	MILLER PINES S/D	CHATHAM	2-25-85	8503	4.000	2 + 1			
3627926	4651	LAKE LILLIGUAN	THOMAS	2-27-85	8503	4.001	2 + 1			
4114824	4652	MOUNTVILLE W.A.	TROUP	3 -4-85	8503	4.004	84 + 3			
9215058	4653	MOODY AFE	LOWNDES	2-28-85	8503	1.003	2 + 1			
3511857	4654	PARROTT, CITY OF	TERRELL	2-26-85	8503	1.000	< 2			
3521561	4655	LAZY PINES MHP	TERRELL	3 -4-85	8503	1.000	< 1			
3611890	4656	BOSTON, CITY OF	THOMAS	2-28-85	8503	1.003	< 2			
3617241	4657	ROSE CITY MHP	THOMAS	2-27-85	8503	1.001	5 + 1			
3103130	4658	ROYAL COURT MHP	CLAYTON	2-28-85	8503	3.000	60 + 3			
7607582	4659	PERRY, CITY OF	HOUSTON	2-26-85	8503	1.000	5 + 1			
1400835	4660	QUITMAN, CITY OF	BROOKS	3-28-85	8503	1.002	2 + 1			
0925919	4661	HARGETT'S TP	BEN HILL	3-26-85	8503	1.000	< 2			
2527409	4662	ARGYLE VILLAGE S/D	CHATHAM	2-22-85	8503	0.001	< 1			
3503439	4663	ELLENTON, TOWN OF	COLQUITT	3 -5-85	8503	1.000	7 + 2			
1825783	4664	WINDING WAY EST.	QUITMAN	3 -6-85	8503	1.000	< 1			
3505548	4665	RUFUS NORMAN MHP	COLQUITT	3 -5-85	8503	1.000	7 + 2			
5213344	4666	PRESTON, CITY OF	WEBSTER	3 -6-85	8503	1.000	1 + 1			
5527644	4667	LAUREL CROSSING	FANNIN	3 -2-85	8503	4.001	5 + 1	0.4		
3724877	4668	ELDRADO	TIFT	3-22-85	8503	4.000	41 + 5			
3712155	4669	TIFTON IND PARK	TIFT	3-22-85	8503	4.004	17 + 3	3.6	< 1.0	
3724877	4670	ELDRADO	TIFT	3-22-85	8503	4.000	40 + 5			
3712155	4671	TIFTON IND PARK	TIFT	3-22-85	8503	4.005	43 + 3			
3712155	4672	TIFTON IND PARK	TIFT	3-22-85	8503	4.000	14 + 3			
8408122	4673	JONES COUNTY W.S.	JONES	3-18-85	8503	4.005	< 2			
3818425	4674	HAFFIS MHP	COVELEA	8-14-84	8503	1.000	< 2			
6510406	4675	MORACE DOLLAR MHP	GRADY	3-19-85	8503	1.001	2 + 2			
9208981	4676	KELLY PINES MHP	LOWNDES	8-21-84	8503	1.001	< 2			
3912274	4677	RIDGECREST CIRCLE HC	TOWNS	3-20-85	8503	1.000	< 2			
3803810	4678	EAST NEWMAN W.S.	COVELEA	8-14-84	8503	1.000	4 + 1			
8808573	4679	WOODLANE MHP	LEE	3-12-85	8503	1.000	< 2			
7812754	4680	RANCH NORTH	JACKSON	2-21-85	8503	1.000	4 + 1			
9209036	4681	OAK TERRACE	LOWNDES	3-19-85	8503	1.001	< 2			
3716777	4682	FOREST LAKE EST.	TIFT	3-12-85	8503	1.000	9 + 2			
2711380	4683	SHADY SHORES	STEPHENS	2-26-85	8503	1.000	6 + 2			
2711326	4684	MARTIN, CITY OF	STEPHENS	3-12-85	8503	1.000	< 2			
2711399	4685	SHOREWOOD ESTATES	STEPHENS	3-12-85	8503	1.000	6 + 2			
3617241	4686	ROSE CITY MHP	THOMAS	9-17-84	8503	3.001	4 + 1			
4304158	4687	ATTAPULGUS, CITY OF	DECATUR	9-28-84	8503	3.002	2 + 2			
4326423	4688	MEADOWROCK S/D	DECATUR	3-14-85	8503	1.001	2 + 2			
5510480	4689	PECAN PARK MHP	GRADY	3-19-85	8503	1.002	2 + 2			

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# RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8504

	SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAF DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 226 PCI/L	URANIUM PCI/L
801410	4690	JENKINSBURG	BUTTS	3-25-85	8504	4.002	2 + 1			
413436	4691	SKY LAKE INC	WHITE	3-26-85	8504	1.000	< 2			
409883	4692	BOSTWICK, CITY OF	MORGAN	3-27-85	8504	1.000	< 2			
209755	4693	CULLODEN, CITY OF	MONROE	3-19-85	8504	3.002	< 2			
000466	4694	ALAPAHA, CITY OF	BERRIEN	3-21-85	8504	3.001	17 + 3			
504259	4695	CHESTER, CITY OF	DODGE	3-26-85	8504	1.000	< 2			
504240	4696	CHAUNCEY, CITY OF	DODGE	3-26-85	8504	1.000	2 + 2			
713920	4697	RAWL'S S/D	LAURENS	2-27-85	8504	1.000	< 1			
416727	4698	PEACEFUL VALLEY SD	WHITE	3 -2-85	8504	1.000	4 + 2			
000475	4699	ENIGMA, CITY OF	BERRIEN	3-21-85	8504	3.002	5 + 1			
215517	4700	VALDOSTA C.C.	LOWNDES	3-28-85	8504	1.001	2 + 1			
501971	4701	THUNDERBOLT, TOWN OF	CHATHAM	4-11-85	8504	4.003	2 + 2			
822718	4702	FAMILY LIFE ENR CTR	COONEE	3-28-85	8504	1.000	< 1			
211057	4703	ELKS AIDMORE HOME	ROCKDALE	4 -4-85	8504	1.000	< 2			
503475	4704	RIVERSIDE, TOWN OF	COLQUITT	4 -5-85	8504	1.000	< 3			
710008	4705	MANSFIELD, CITY OF	NEWTON	4 -4-85	8504	1.000	13 + 2			
704378	4706	ALBANY, CITY OF	DOUGHERTY	3-26-85	8504	4.035	< 2			
700240	4707	STATHAM, CITY OF	BARROW	4-11-85	8504	4.000	6 + 2	1.4		
509932	4708	CHATSORTH, CITY OF	MURRAY	4-18-85	8504	4.000	2 + 1			
803953	4709	MEADOWVIEW S/D	COWETA	4-27-85	8504	4.004	2 + 1			
503630	4710	COLUMBIA CO. W.S.	COLUMBIA	4 -4-85	8504	4.001	< 2			
407366	4711	FRANKLIN/HEARD W.A.	HEARD	4-16-85	8504	4.000	< 1			
511191	4712	DONALSONVILLE	SEMINOLE	4-16-85	8504	4.004	< 2			
711243	4713	ALCOVY MHP	NEWTON	4-23-85	8504	1.000	< 1			
717391	4717	MEADOWCROOK MHP	NEWTON	4-23-85	8504	1.000	< 2			
515653	4715	WINDY ACRES MHP	COLUMBIA	4-11-85	8504	1.001	< 1			
509932	4716	CHATSORTH, CITY OF	MURRAY	4-18-85	8504	3.000	< 2			
735114	4717	FINE VALLEY S/D	NEWTON	4-23-85	8504	1.000				
717468	4718	TRUEL'S MHP	NEWTON	4-23-85	8504	1.000	< 2			
509408	4719	DANIELSVILLE	MADISON	4-16-85	8504	1.000	21 + 2			
710190	4720	LEXINGTON, CITY OF	OGLETHORPE	4-16-85	8504	1.000	15 + 2			
226026	4721	ASHURST MHP	LOWNDES	4-22-85	8504	1.001	< 2			

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SAMPLE VS #	LOCATION	COUNTY	COLLECT DATE	LAE DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	UFANTUM PCI/L
27980	4722 TIVOLI MARSH S/D	BRYAN	4-29-85	8505	4.001	< 1			
03900	4723 ROLLIN HILLS MHP	CARROLL	4-29-85	8505	4.002	2 + 1			
#####	4724 MODENA ON SKILAWAY		5 -1-85	8505	4.001	< 1			
20930	4725 PINE NEEDLE MHP	COLUMBIA	4-24-85	8505	1.000	< 2			
06714	4726 SUWANEE, CITY OF	WINNETT	4 -3-85	8505	1.000	3 + 1			
06732	4727 NORCROSS MHP	WINNETT	4 -3-85	8505	1.000	< 1			
17428	4728 SUBURBAN MHP	HALL	4 -2-85	8505	1.000	< 2			
18829	4729 MOBILE CITY MHP	COLUMBIA	4-24-85	8505	1.000	2 + 1			
07003	4730 LANIER SAIL CLUB	HALL	4 -2-85	8505	3.000	11 + 2			
11375	4731 TIMBERIDGE EST.	HALL	4 -4-85	8505	1.000	< 1			
16674	4732 M.L. VIEW LAKE EST.	HALL	4 -4-85	8505	1.000	< 1			
27880	4733 BRYAN WOOD EST. 3	BRYAN	5 -6-85	8505	4.001	< 2			
#####	4734 PONDEROSA TP		4-26-85	8505	4.001	< 2			
28071	4735 PIEDMONT PARK SD	MONROE	5 -9-85	8505	4.001	11 + 2			
26593	4736 PINE RUN SD	THOMAS	5 -6-85	8505	1.002	11 + 2			
12164	4737 TIFT CO WS RD. DEPT	TIFT	5 -1-85	8505	1.000	6 + 1			
03829	4738 GRANTVILLE, CITY OF	COWETA	5 -7-85	8505	1.000	2 + 1			
20013	4739 MORLAND, CITY OF	COWETA	5 -7-85	8505	1.000	2 + 1			
15930	4740 K&M MHP	COWETA	5 -7-85	8505	1.000	< 1			
03953	4741 MEADOWVIEW SD	COWETA	5 -7-85	8505	1.000	3 + 1			
21875	4742 HIDEAWAY TP	TIFT	5 -1-85	8505	1.000	< 2			
12155	4743 TIFTON INN PARK	TIFT	5 -3-85	8505	1.000	8 + 2			
26563	4744 PINE RUN ST	THOMAS	5 -6-85	8505	1.001	4 + 1			
08918	4745 BROWN'S MHP	LOWNDES	5 -2-85	8505	1.001	1 + 1			
25367	4746 TIT MHP	SUMTER	2-27-85	8505	4.001	< 2			
11326	4747 MARTIN, CITY OF	STEPHENS	5-14-85	8505	4.006	< 2			
27680	4748 HILLSIDE SD	LOWNDES	5-13-85	8505	4.001	16 + 3			
10616	4749 CLAYTON, CITY OF	RAVEN	5 -8-85	8505	4.001	2 + 1			
05794	4750 FRANKLIN SPRGS, CITY	FRANKLIN	5-13-85	8505	4.004	2 + 1			
04752	4751 ECHOES CC. WA	ECHOLS	5-13-85	8505	1.001	< 2			
23992	4752 GLENDALE SD	LEE	5-14-85	8505	1.000	< 1			
31142	4753 GORDON MCLEOD MHP	LOWNDES	5 -7-85	8505	1.001	< 2			
21936	4754 OAKRIDGE TP	TIFT	5-17-85	8505	6.000	189 + 6			
21577	4755 WHISPERING PINES EST	TIFT	5-17-85	8505	6.000	52 + 6			
12155	4756 TIFTON INN PARK	TIFT	5-17-85	8505	6.000	55 + 6			
26692	4757 SHADY LANE MHP	CRISP	5-17-85	8505	1.001	< 1			
04158	4758 ATLAPULGUS, CITY OF	DECATUR	5-21-85	8505	6.000	55 + 6			
20945	4759 HOEL'S S/I	TIFT	5-22-85	8505	1.000	2 + 1			
17241	4760 ROSE CITY MHP	THOMAS	5-16-85	8505	3.001	3 + 1			

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RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8506

SAMPLE VS #	LOCATION	COUNTY	COLLECT DATE	LAF DATE	TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
227699	4761 PINEYWOOD ST	LOWNDES	5-24-85	8506	4.001	< 2			
227908	4762 COPELAND HTS. ST	LOWNDES	6 -3-85	8506	4.001	< 2			
10765	4763 RICHMOND CC WS	RICHMOND	5-23-85	8506	4.107	< 1			
228035	4764 NORTH LAKE SD	LOWNDES	5-21-85	8506	4.001	< 2			
228208	4765 FOREST LAKE SD	JACKSON	5-14-85	8506	4.001	< 2			
215846	4766 SEMINOLE MHP	CLARKE	5-28-85	8506	3.000	36 + 4			
210080	4767 DIAL COM. WS	NEWTON	5 -9-85	8506	1.000	< 1			
222510	4768 M&T WATER WORKS	TOOMES	5-24-85	8506	6.000	13 + 3			
207947	4769 NANCY HART INT CARE	ELBERT	5-21-85	8506	1.000	< 2			
206336	4770 SATILLA SHOES SD	GLYNN	5-22-85	8506	1.000	< 2			
225820	4771 JUEILEE PARTNERS	MADISON	5 -8-85	8506	1.000	< 2			
200466	4772 ALAPAHA, CITY	BERRIEN	5-23-85	8506	3.001	28 + 3			
216495	4773 BRITTIANY HARBOR SC	FRANKLIN	4-30-85	8506	3.000	42 + 4			
235354	4774 SPRING VALLEY SD	NEWTON	5 -5-85	8506	1.000	167 + 10			
209506	4775 DARIEN, CITY	MCINTOSH	5-29-85	8506	1.000	< 2			
227252	4776 WALKER CO RURAL WSA	WALKER	5-22-85	8506	4.001	< 2			
207341	4777 TUGALOC BAY EST	HART	4-30-85	8506	3.000	32 + 3			
200475	4778 ENIGMA, CITY	BERRIEN	5-23-85	8506	3.000	20 + 3			
216548	4779 WINDWARD ACRES	GLYN	5-30-85	8506	1.000	< 2			
216501	4780 BRITTIANY HARBOR WEST	FRANKLIN	5-28-85	8506	3.000	2 + 1			
200326	4781 WHITE, CITY	BARTON	3-28-84	8506	5.005	3 + 1			
200405	4782 HIDDEN VALLEY EST	EARLE	2 -9-83	8506	5.000	9 + 2			
200826	4783 MORVEN, CITY	BROOKS	12-21-84	8506	5.003	3 + 1			
200902	4784 RICHMOND HILL, CITY	BRYAN	5-17-83	8506	5.000	< 2			
201011	4785 STRATHY HALL SD	BRYAN	6 -7-83	8506	5.000	< 2			
223514	4786 RIVERSIDE EST SD	BURKE	12 -1-83	8506	5.002	< 2			
223712	4787 POINT PETER SD	CANDLER	4 -5-83	8506	5.000	< 2			
202293	4788 PARKERBURG SD	CHATHAM	7-13-83	8506	5.000	< 2			
226568	4789 EAST GATE MHP	CHEROKEE	4-15-84	8506	5.000	< 2			
204726	4790 SPACE PLACE MHP	CLARKE	11 -8-83	8506	5.001	< 2			
204726	4791 SPACE PLACE MHP	CLARKE	3-30-84	8506	5.002	2 + 1			
204735	4792 LAKESIDE MHP	CLARKE	3-30-84	8506	5.000	< 2			
244881	4793 HOLIDAY BEACH #3	COFFEE	8-24-84	8506	5.001	4 + 1			
225947	4794 KENDALLWOOD CROSS. SD	COLQUITT	4-17-84	8506	5.000	3 + 1			
203411	4795 BERLIN, TOWN	COLQUITT	8-29-84	8506	5.003				
226337	4796 FAIRVIEW MHP	CRISP	1-23-84	8506	5.001	< 2			
226692	4797 SHADY LAKE TP	CRISP	1-23-84	8506	5.001	< 2			
226683	4798 EAST CRISP	CRISP	1-23-84	8506	5.001	< 2			
204194	4799 DECATUR CO INT PK	DECATUR	6 -7-84	8506	5.001	2 + 2			
204344	4800 VIENNA, CITY	DOOLY	4-18-84	8506	5.003	< 2			
204630	4801 DOUGLAS CO WATER	DOUGLAS	2-15-84	8506	5.000	< 2			
226106	4802 TARA MHP	EFFINGHAM	4-30-85	8506	5.000	< 2			
204899	4803 BOWMAN, CITY	ELBERT	3 -7-85	8506	5.004	< 2			
226246	4804 SOUTHERN PINES MHP	GLYNN	2 -1-84	8506	5.001	< 2			
210322	4805 RESACA APTS	GORDON	9 -8-83	8506	5.000	< 2			
206595	4806 WOODVILLE, CITY	GREENE	7-17-84	8506	5.002	< 2			
206766	4807 BALDWIN, CITY	HABERSHAM	10-20-83	8506	5.005	< 2			
206766	4808 BALDWIN, CITY	HABERSHAM	3-28-83	8506	5.000	< 2			
24437	4809 ISLAND CREEK SD	HANCOCK	3-22-84	8506	5.004	4 + 2			
24437	4810 ISLAND CREEK SD	HANCOCK	3-22-84	8506	5.002	4 + 2			

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SAMPLE	LOCATION	COUNTY	COLLECT DATE	LAE DATE	TYPE/. WELL	GROSS ALPHA	RA-226	RA-228	URANIUM
WS #						PCI/L	PCI/L	PCI/L	PCI/L
24437	4811 ISLAND CREEK SD	HANCOCK	9-28-83	8506	5.006	4 + 2			
25014	4812 SCENIC SHORES SD	HANCOCK	9-28-83	8506	5.003	3 + 1			
25014	4813 SCENIC SHORES SD	HANCOCK	5 -5-83	8506	5.001	11 + 3			
07503	4814 SWAN LAKE EST	HENRY	12 -3-84	8506	5.002	8 + 2			
08091	4815 WRIGHTSVILLE, CITY	JOHNSON	6 -2-83	8506	5.000	< 2			
08073	4816 KITE, CITY	JOHNSON	6-22-84	8506	5.000	< 2			
08104	4817 GRAY, CITY	JONES	4-24-84	8506	5.007	2 + 2			
26885	4818 PHILENA PARK SD	LEE	4 -4-85	8506	5.001	< 2			
25955	4819 VICTORY MANOR MHP	LIBERTY	5-16-85	8506	5.001	< 2			
26536	4820 BUCK'S MHP	LIBERTY	6-13-84	8506	5.001	< 2			
14176	4821 ELLER TP	LIBERTY	9-19-83	8506	5.001	< 2			
26077	4822 HERITAGE MHP	LIBERTY	6-13-84	8506	5.001	< 1			
25488	4823 TWIN OAKS MHP	LONG	11 -2-83	8506	5.002	< 2			
25169	4824 CELAR BROOK MHP	LONG	2-10-83	8506	5.000	< 2			
26065	4825 SPRING CREEK MHP	LONG	11 -2-83	8506	5.001	< 2			
26734	4826 HOLLY OAKS ST	LOWNDES	12 -9-84	8506	5.002	2 + 2			
25607	4827 PEEBLE CREEK ST	LOWNDES	9-13-84	8506	5.001	2 + 2			
23179	4828 HIDDEN HILLS ST	LOWNDES	6-25-84	8506	5.001	2 + 2			
09106	4829 STALVEY'S MHP	LOWNDES	5-21-85	8506	5.003	< 2			
09313	4830 OGLETHORPE, CITY	Macon	11 -1-83	8506	5.001	2 + 2			
09298	4831 MARSHALLVILLE, CITY	Macon	6 -7-84	8506	5.000				
09417	4832 ILA, CITY	MADISON	9-14-84	8506	5.002	2 + 2			
09466	4833 DEARING, CITY	MONTGOMERY	8-24-83	8506	5.000	< 2			
26466	4834 APPALACHEE WOODS ST	MORGAN	4 -9-85	8506	5.001	2 + 2			
26500	4835 RIVERSIDE EST MHP	NEWTON	3-31-84	8506	5.000	< 2			
33744	4836 ELDER HIS SD	OCONEE	7-30-84	8506	5.000	< 2			
24307	4837 OAK GROVE SD	OCONEE	7-30-84	8506	5.000	8 + 2			
10389	4838 BIG CANCE	PICKENS	2-13-84	8506	5.014	< 2			
10389	4839 BIG CANCE	PICKENS	2-13-84	8506	5.011	4 + 1			
10518	4840 HARTFORD, CITY	PULASKI	11 -3-83	8506	5.002	4 + 1			
25656	4841 COLEMAN, CITY	RANDOLPH	10-24-84	8506	5.001	< 2			
11335	4842 TOCOGA WS	STEPHENS	5-29-84	8506	5.000	< 2			
26120	4843 TALEOT CO WS	TALEOT	2-13-85	8506	5.000	2 + 2			
11603	4844 JUNCTION CITY	TALEOT	4-24-85	8506	5.002	< 2			
11689	4845 GEORGIA STATE PRISON	TATTINALL	1-10-84	8506	5.003	< 2			
11735	4846 JACKSONVILLE, CITY	TELFAIR	7-10-84	8506	5.000	2 + 1			
26724	4847 LAKE RIVERSIDE	THOMAS	4 -3-85	8506	5.001	5 + 2			
26292	4848 NEWARK WS	THOMAS	1-19-84	8506	5.002	< 2			
26553	4849 PINE RUN EST	THOMAS	1-23-84	8506	5.002	9 + 2			
26592	4850 PINE RUN EST	THOMAS	1-23-84	8506	5.001	6 + 2			
11915	4851 MEIGS, CITY	THOMAS	1-16-85	8506	5.004	< 2			
26238	4852 HIDDEN ACRES EST	THOMAS	4 -2-85	8506	5.001	2 + 2			
12164	4853 TIFT CO WS	TIFT	4 -7-83	8506	5.000	5 + 2			
16245	4854 SPRING HILL PROP	TIFT	4 -9-85	8506	5.001	< 2			
12155	4855 TIFTON INL PARK	TIFT	7-11-84	8506	5.000				
20818	4856 SUNNI PINE MHP	TOOMES	4-22-85	8506	5.001				
12247	4857 YOUNG HARRIS, CITY	TOWNS	11-15-83	8506	5.006	2 + 1			
12564	4858 BLAIRSVILLE, CITY	UNION	6 -1-84	8506	5.000	< 2			
13225	4859 TENNILE, CITY	WASHINGTON	9 -1-83	8506	5.000	< 2			
13295	4860 DEERWOOD MANOR MHP	WAYNE	6-28-84	8506	5.001	< 2			

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# WATER SUPPLIES REPORT # 8506

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAE DATE	TYPE/. WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
124390	4861 MT. SHADOWS, INC.	WHITE	7-14-83	8506	5.000	< 2			
713589	4862 TIGNALL	WILKES	0 0-85	8506	5.006				
526760	4863 RIVERWOOD EST	THOMAS	6-10-85	8506	4.002	2 + 1			
514344	4864 STATESBORO, CITY	BULLOCH	5-31-85	8506	1.007	2 + 1			
215076	4865 UNION CREEK SD	LOWNDES	6 -4-85	8506	1.001	2 + 1			
710080	4866 DAIL WS	NEWTON	6 -4-85	8506	4.004				
214933	4867 MCLEOD'S ST, MHP	LOWNDES	5-28-85	8506	1.002	< 2			
217288	4868 WESTWIND SD	LOWNDES	6 -4-85	8506	1.001	3 + 1			
415820	4869 JAMES SD	BROOKS	6 -4-85	8506	1.001	< 2			
114297	4870 MOBILE WORLD-FOR HL	EIEI	0 0-85	8506	1.000	2 + 1			
215021	4871 SHERWOOD MHP	LOWNDES	5-30-85	8506	1.001	3 + 1			
209142	4872 TWIN LAKES SD	LOWNDES	5-31-85	8506	1.001	< 2			
223179	4873 HIDDEN HILLS SD	LOWNDES	6 -4-85	8506	1.001	4 + 1			
826566	4874 EAST GATE MHP	CHEROKEE	6 -6-85	8506	1.000	2 + 2			
901505	4875 EDISON, CITY	CALHOUN	6 -4-85	8506	1.000	< 2			
208990	4876 FRANCIS LAKE SI	LOWNDES	5-30-85	8506	1.001	3 + 1			
214675	4877 TYLERS MHP	LOWNDES	5-30-85	8506	1.001	< 2			
222848	4878 COUNTRY ESTATES SI	LOWNDES	6 -4-85	8506	1.001	2 + 2			
301782	4879 CATOOSA COUNTY W&S	CATOOSA	5-15-85	8506	1.000	< 2			
712094	4880 FOX HILL SI	TIFT	6 -6-85	8506	1.000	6 + 2			
806766	4881 BALDWIN, CITY	HABERSHAM	5-15-85	8506	1.000	< 2			
806793	4882 DEMOREST, CITY	HABERSHAM	5 -1-85	8506	1.000	2 + 2			
806757	4883 ALTO, CITY	HABERSHAM	5-15-85	8506	1.000	< 2			

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## RADIOACTIVITY IN COMMUNITY WATER SUPPLIES REPORT # 8506

SAMPLE WS #	LOCATION	COUNTY	COLLECT DATE	LAE DATE	TYPE/ WELL	GROSS ALPHA PCI/L	RA- 226 PCI/L	RA- 228 PCI/L	URANIUM PCI/L
313369	4884 ALAMO, CITY	WHEELER	6-12-84	8506	1.001				
409313	4885 OGLETHORPE, CITY	MACON	11-17-83	8506	4.002	< 2			
240036	4886 ABC MHP	ROCKDALE	1-6-85	8506	4.001	< 1			
512440	4887 FIRDSONG MHP & SD	HOUSTON	6-8-84	8506	1.000	13 + 2			
126700	4888 LAKE OF LAKES	LONG	11-2-83	8506	4.001	< 1			
713589	4889 TIGNALL	WILKES	9-29-83	8506	4.007	< 2			
544216	4890 HMP ENTERPRISES	SPALDING	1-11-84	8506	4.000	< 1			
323811	4891 NOAH'S MOUNTAIN HA	LUMPKIN	8-2-84	8506	0.000	< 1			
309831	4892 CHARLOTTE WA	MONTGOMERY	6-12-84	8506	1.001	7 + 2			
325902	4893 EISHOP, CITY	OCONEE	10-13-83	8506	4.002	< 2			
512440	4894 FIRDSONG MHP & SD	HOUSTON	6-8-84	8506	1.002				
727054	4895 BENT CREEK ST	BARROW	4-26-84	8506	1.000	2 + 1			
326549	4896 HALL RIDGE ON LANIER	FORSYTH	3-19-84	8506	1.000	< 1			
309831	4897 CHARLOTTE WA	MONTGOMERY	6-12-84	8506	1.001				
705295	4898 HENRY COLLEGE	FLOYD	6-20-84	8506	1.000	< 2			
313601	4899 ALLEN TOWN, CITY	WILKINSON	4-15-83	8506	1.000	< 1			
525974	4900 CRESTWOOD CROSSING	COLQUITT	11-3-83	8506	4.001	< 1			
109730	4901 IDLE, CITY	MITCHELL	3-28-84	8506	1.000	< 2			
723127	4902 CLENCIES FARM & RENT	FLOYD	10-14-83	8506	4.000	< 2			
313369	4903 ALAMO, CITY	WHEELER	6-12-84	8506	3.000	< 1			
325793	4904 GLENDA STAPES	GLYNN	2-9-84	8506	4.001	< 2			
224437	4905 ISLAND CREEK SD	HANCOCK	3-22-84	8506	4.001				
323811	4906 NOAH'S MOUNTAIN SD	LUMPKIN	5-3-84	8506	1.000	< 2			
506507	4907 WHIGHAM, CITY	GRADY	8-27-84	8506	1.002				
313369	4908 ALAMO, CITY	WHEELER	6-12-84	8506	3.000				
000518	4909 GRINER MHP	BERRIEN	12-19-83	8506	4.001				
506293	4910 NEW HOPE MHP	GLYNN	5-10-84	8506	4.002				
320884	4911 FLOYD'S MHP	LIBERTY	11-2-83	8506	4.002				
112591	4912 NOTLA WA	UNION	11-9-83	8506	4.004				
716246	4913 SPRING HILL PROP	TIFT	10-13-81	8506	4.000				
314059	4914 WOODSTOCK MHP	CHEROKEE	2-28-83	8506	4.000				
112591	4915 NOTLA WA	UNION	1-17-84	8506	4.004				
224437	4916 ISLAND CREEK SD	HANCOCK	2-1-83	8506	4.005				
323183	4917 JESSIE O'FACE ST	CANDLER	9-10-82	8506	6.000				
325902	4918 EISHOP, CITY	OCONEE	10-13-83	8506	4.001				
512440	4919 FIRDSONG MHP	HOUSTON	6-8-84	8506	3.001				
24051	4920 VALLEY INN & MHP	HARRIS	10-19-83	8506	4.000				
24081	4921 VAUGHN'S WS	FULTON	3-9-83	8506	4.000				
11375	4922 TIMEBRIDGE EST SD	HALL	6-13-85	8506	4.000				
26760	4923 RIVERWOOD ST	THOMAS	6-18-85	8506	4.002				
14824	4924 MOUNTVILLE WA	TROUP	5-24-85	8506	1.000				
00871	4925 SHADY ACRES SD	BROOKS	6-13-85	8506	1.000				

S: TYPE 0,5=1ST COMPOSITE ; 2=REPEAT COMPOSITE ; 1=REPEAT SINGLE ; 3=REPEAT QUARTERLY ; 4=NEW SCREEN ; 6=OTHER  
: COLLECT DATE TYPES 0,2,5 = COMPOSITE DATE

Table 19

Exposure Rates at Nuclear Facilities measured with TLD's

CLEAR PLANT HATCH ... 850403 - 850626 : 84 DAYS

TLD#	MR	MICRR/HR	MR/YR	
1.0	10.4	5.2	45.2	
(+-)	1.3	0.6	5.4	
2.0	10.4	5.2	45.3	
(+-)	1.2	0.6	5.1	
3.0	11.4	5.7	49.7	
(+-)	1.3	0.7	5.8	
4.0	7.8	3.9	33.9	
(+-)	1.0	0.5	4.5	
5.0	10.0	4.9	43.3	
(+-)	1.2	0.6	5.1	
6.0	9.2	4.6	39.9	
(+-)	1.3	0.6	5.5	
7.0	9.3	4.6	40.4	
(+-)	1.1	0.5	4.8	
8.0	9.1	4.5	39.7	
(+-)	1.1	0.5	4.6	
9.0	7.6	3.8	32.9	
(+-)	0.1	0.0	0.4	
10.0	9.2	4.6	40.2	
(+-)	1.2	0.6	5.1	
12.0	9.4	4.7	40.8	
(+-)	1.2	0.6	5.1	
13.0	12.8	6.3	55.6	
(+-)	1.6	0.8	6.9	... <> 95% NORMAL DIST.
14.0	9.3	4.6	40.3	
(+-)	1.2	0.6	5.0	
15.0	9.4	4.7	41.0	
(+-)	1.1	0.6	4.8	
16.0	8.6	4.3	37.5	
(+-)	1.1	0.5	4.7	
17.0	9.3	4.6	40.4	
(+-)	1.1	0.6	4.9	
18.0	10.0	4.9	43.2	
(+-)	1.2	0.6	5.1	
20.0	9.3	4.6	40.3	
(+-)	1.2	0.6	5.4	

21.0 (+-)	1.2	0.6	5.1
22.0 (+-)	10.1 1.1	5.0 0.6	43.9 5.0
23.0 (+-)	8.3 1.0	4.1 0.5	36.0 4.2
24.0 (+-)	9.5 1.2	4.7 0.6	41.4 5.3
25.0 (+-)	7.9 1.0	3.9 0.5	34.2 4.2
26.0 (+-)	7.5 1.1	3.7 0.5	32.4 4.7
27.0 (+-)	9.3 1.1	4.6 0.6	40.5 4.9
28.0 (+-)	10.0 1.2	4.9 0.6	43.3 5.3
29.0 (+-)	7.0 0.9	3.5 0.5	30.6 4.1
30.0 (+-)	8.0 1.1	4.0 0.5	34.8 4.8
31.0 (+-)	8.1 1.1	4.0 0.5	35.1 4.7
32.0 (+-)	8.9 1.1	4.4 0.6	38.8 4.8
33.0 (+-)	10.0 1.4	4.9 0.7	43.3 6.2
34.0 (+-)	8.3 1.0	4.1 0.5	36.2 4.4
35.0 (+-)	9.9 1.1	4.9 0.6	43.0 4.9
36.0 (+-)	8.2 1.1	4.1 0.5	35.8 4.8
37.0 (+-)	8.5 1.0	4.2 0.5	36.8 4.5
38.0 (+-)	6.9 1.0	3.4 0.5	29.8 4.3
39.0 (+-)	7.4 0.9	3.7 0.4	32.4 3.9
40.0 (+-)	7.3 0.9	3.6 0.4	31.8 3.8
41.0 (+-)	7.8 1.0	3.9 0.5	34.1 4.2
42.0 (+-)	9.1 1.2	4.5 0.6	39.7 5.0

43.0 (+-)	9.3 1.2	4.6 0.6	40.4 5.3
44.0 (+-)	8.4 1.0	4.2 0.5	36.6 4.5
45.0 (+-)	10.8 1.3	5.3 0.6	46.8 5.5
46.0 (+-)	11.7 1.5	5.8 0.7	50.6 6.4
47.0 (+-)	10.9 1.8	5.4 0.9	47.3 7.9
48.0 (+-)	10.3 1.2	5.1 0.6	44.7 5.4
49.0 (+-)	10.8 1.2	5.3 0.6	46.8 5.3
NET. AVG.: (+-)	9.2 2.6	4.5 1.3	39.9 11.1

ATE BACKGROUND FOR NUCLEAR PLANT HATCH ... 850403 - 850626 : 84 DAYS

TLD#	MR	MICRR/HR	MR/YR
4.0	16.1	8.0	70.0
(+-)	2.1	1.0	9.2
5.0	18.8	9.3	81.8
(+-)	2.8	1.4	12.2
7.0	12.2	6.0	52.9
(+-)	1.6	0.8	6.8
8.0	9.8	4.9	42.6
(+-)	1.1	0.6	4.9
NET. AVG.:	14.2	7.1	61.8
(+-)	8.0	4.0	34.9

YANNAH RIVER PLANT/VOGTLE NUCLEAR PLANT ...  
 0404 - 850627 : 84 DAYS

TLD#	MF	MICRR/HR	MR/YR
1.0 (+-)	10.4 1.2	5.2 0.6	45.3 5.4
2.0 (+-)	14.0 1.6	6.9 0.8	60.8 7.1
3.0 (+-)	15.1 1.8	7.5 0.9	65.6 7.8
4.0 (+-)	16.2 1.8	8.0 0.9	70.2 8.0
5.0 (+-)	16.0 1.8	7.9 0.9	69.6 7.7
6.0 (+-)	14.7 2.5	7.3 1.2	64.0 10.8
7.0 (+-)	13.9 1.5	6.9 0.8	60.3 6.6
8.0 (+-)	11.8 1.8	5.9 0.9	51.3 8.0
9.0 (+-)	12.4 1.5	6.1 0.8	53.8 6.7
10.0 (+-)	13.3 1.8	6.6 0.9	57.8 7.9
11.0 (+-)	13.4 1.6	6.6 0.8	58.2 7.1
12.0 (+-)	15.4 1.8	7.7 0.9	67.1 7.7
13.0 (+-)	10.8 1.4	5.3 0.7	46.8 6.2
14.0 (+-)	12.0 1.5	6.0 0.7	52.3 6.5
15.0 (+-)	13.3 1.7	6.6 0.9	57.7 7.5
16.0 (+-)	10.1 1.2	5.0 0.6	43.7 5.2
17.0 (+-)	12.0 1.5	6.0 0.7	52.2 6.6
18.0 (+-)	11.8 1.6	5.8 0.8	51.2 7.1

	(+-)	1.5	0.7	6.6	
20.0		11.0	5.4	47.6	
	(+-)	1.4	0.7	6.2	
21.0		10.0	5.0	43.6	
	(+-)	1.3	0.6	5.7	
22.0		10.2	5.0	44.2	
	(+-)	1.2	0.6	5.3	
23.0		18.0	8.9	78.4	
	(+-)	3.2	1.6	13.8	... <> 95% NORMAL DIST.
24.0		10.5	5.2	45.5	
	(+-)	1.4	0.7	6.1	
25.0		14.7	7.3	64.0	
	(+-)	2.5	1.3	11.0	
27.0		12.2	6.1	53.1	
	(+-)	1.5	0.8	6.6	
28.0		12.0	6.0	52.3	
	(+-)	1.4	0.7	6.1	
29.0		13.2	6.6	57.4	
	(+-)	1.6	0.8	7.1	
31.0		13.7	6.8	59.7	
	(+-)	2.2	1.1	9.5	
32.0		11.7	5.8	50.6	
	(+-)	1.9	0.9	8.1	
33.0		13.2	6.5	57.1	
	(+-)	1.6	0.8	6.8	
34.0		8.3	4.1	35.9	
	(+-)	1.1	0.6	5.0	
35.0		11.3	5.6	49.1	
	(+-)	1.4	0.7	5.9	
36.0		13.2	6.6	57.4	
	(+-)	1.6	0.8	7.0	
37.0		10.6	5.2	45.9	
	(+-)	1.4	0.7	5.9	
38.0		11.7	5.8	50.8	
	(+-)	1.3	0.7	5.8	
39.0		9.7	4.8	42.2	
	(+-)	1.9	1.0	8.5	
40.0		11.2	5.6	48.8	
	(+-)	1.4	0.7	6.0	
41.0		10.4	5.2	45.3	
	(+-)	1.2	0.6	5.3	
42.0		11.5	5.7	50.2	
	(+-)	2.3	1.2	10.2	



43.0 (+-)	9.7 1.3	4.8 0.6	42.2 5.4
44.0 (+-)	13.5 2.2	6.7 1.1	58.7 9.8
45.0 (+-)	10.0 1.2	5.0 0.6	43.4 5.3
46.0 (+-)	12.8 1.6	6.4 0.8	55.7 6.9
NET. AVG.: (+-)	12.3 4.1	6.1 2.0	53.6 17.6

ANAH RIVER PLANT ... 841115 - 850627 : 224 DAYS

TLD#	MR	MICRR/HR	MR/YR
11.0	30.1	5.6	49.0
(+-)	3.4	0.6	5.5

TE BACKGROUND FOR SRP/VCGTLE ... 850404 - 850627 :84 DAYS

TLD#	MR	MICRR/HR	MR/YR
1.0	20.8	10.3	90.6
(+-)	2.4	1.2	10.6
2.0	9.8	4.9	42.6
(+-)	1.4	0.7	6.0
3.0	14.3	7.1	62.2
(+-)	1.7	0.8	7.4
NET. AVG.:	15.0	7.4	65.1
(+-)	11.1	5.5	48.2

RGIA INSTITUTE OF TECHNOLOGY RESEARCH REACTOR ...  
 318 - 850620 : 94 DAYS

TLD#	MR	MICRR/HR	MR/YR	
1.0	34.2	15.2	133.0	
(+-)	3.5	1.6	13.7	
2.0	32.9	14.6	127.8	
(+-)	3.5	1.5	13.5	
3.0	34.6	15.3	134.4	
(+-)	4.4	1.9	16.9	
4.0	33.8	15.0	131.4	
(+-)	3.7	1.7	14.5	
5.0	24.8	11.0	96.1	
(+-)	3.5	1.6	13.6	
6.0	26.3	11.7	102.2	
(+-)	2.7	1.2	10.5	
7.0	23.3	10.3	90.4	
(+-)	2.5	1.1	9.8	
8.0	26.7	11.8	103.6	
(+-)	3.8	1.7	14.8	
9.0	114.5	50.8	444.7	
(+-)	11.5	5.1	44.8	... <> 95% NORMAL DIST.
10.0	21.9	9.7	85.0	
(+-)	2.4	1.1	9.3	
11.0	25.7	11.4	99.9	
(+-)	2.6	1.1	10.0	
12.0	25.7	11.4	99.9	
(+-)	3.2	1.4	12.3	
13.0	25.6	11.4	99.5	
(+-)	2.6	1.2	10.1	
14.0	24.9	11.1	96.9	
(+-)	2.7	1.2	10.5	
NET. AVG.:	33.9	15.0	131.8	
(+-)	47.2	20.9	183.2	

ORGIA INSTITUTE OF TECHNOLOGY RESEARCH REACTOR ...  
0319 - 850620 : 458 DAYS

TLD#	MR	MICRR/HR	MR/YR
13.0	116.2	10.6	92.6
(+-)	11.8	1.1	9.4

QUOYAH NUCLEAR PLANT ... 850227 - 850605 : 98 DAYS

TLD#	MR	MICRR/HR	MR/YR
1.0	16.7	7.1	62.4
(+-)	1.9	0.8	7.0
2.0	16.7	7.1	62.1
(+-)	2.0	0.8	7.3
3.0	16.7	7.1	62.4
(+-)	2.0	0.8	7.3
4.0	20.9	8.9	77.7
(+-)	2.2	0.9	8.1
5.0	17.2	7.3	64.2
(+-)	2.4	1.0	9.1
6.0	14.4	6.1	53.8
(+-)	1.7	0.7	6.2
7.0	19.1	8.1	71.2
(+-)	2.0	0.9	7.5
9.0	23.6	10.0	87.9
(+-)	2.5	1.0	9.2
10.0	22.6	9.6	84.0
(+-)	2.5	1.1	9.3
11.0	23.1	9.8	86.2
(+-)	2.5	1.1	9.3
NET. AVG.:	19.1	8.1	71.2
(+-)	6.5	2.7	24.1

ATE BACKGROUND FOR SEQUOYAH ... 850227 - 850605 : 98 DAYS

TLD#	MR	MICRR/HR	MR/YR
13.0 (+-)	13.0 2.2	5.5 0.9	48.3 8.0
14.0 (+-)	30.1 3.1	12.8 1.3	112.0 11.5
15.0 (+-)	25.9 2.7	11.0 1.2	96.4 10.2
16.0 (+-)	17.5 2.0	7.4 0.9	65.0 7.5
NET. AVG.: (+-)	21.6 15.6	9.2 6.6	80.4 58.0